

**Iowa Department of Natural Resources  
Title V Operating Permit**

**Name of Permitted Facility: Modernfold Inc.**

**Facility Location: 512 5<sup>th</sup> Street N.W., Dyersville, IA 52040**

**Air Quality Operating Permit Number: 99-TV-031R1**

**Expiration Date: February 6, 2012**

**EIQ Number: 92-3655**

**Facility File Number: 31-02-002**

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**Responsible Official**

**Name: Mark Sublette**

**Title: Director of Operations**

**Mailing Address: 512 5<sup>th</sup> Street N.W., Dyersville, IA 52040**

**Phone #: 563-875-7136**

**Permit Contact Person for the Facility**

**Name: Mae English**

**Title: Environmental & Safety Coordinator**

**Mailing Address: 512 5<sup>th</sup> Street N.W., Dyersville, IA 52040**

**Phone #: 563-875-7136 ext. 111**

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This permit is issued in accordance with 567 Iowa Administrative Code Chapter 22, and is issued subject to the terms and conditions contained in this permit.

**For the Director of the Department of Natural Resources**

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Douglas A. Campbell, Supervisor of Air Operating Permits Section

Date

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## Abbreviations

acfm.....	actual cubic feet per minute
CFR.....	Code of Federal Regulation
CE .....	control equipment
CEM.....	continuous emission monitor
°F.....	degrees Fahrenheit
EIQ.....	emissions inventory questionnaire
EP.....	emission point
EU .....	emission unit
gal/hr. ....	gallons per hour
gr./dscf .....	grains per dry standard cubic foot
gr./100 cf.....	grains per one hundred cubic feet
IAC.....	Iowa Administrative Code
IDNR.....	Iowa Department of Natural Resources
MVAC.....	motor vehicle air conditioner
NAICS.....	North American Industry Classification System
NSPS .....	new source performance standard
ppmv .....	parts per million by volume
lb./hr.....	pounds per hour
lb./MMBtu .....	pounds per million British thermal units
SCC.....	Source Classification Codes
scfm.....	standard cubic feet per minute
SIC .....	Standard Industrial Classification
TPY.....	tons per year
USEPA.....	United States Environmental Protection Agency

### Pollutants

PM.....	particulate matter
PM <sub>10</sub> .....	particulate matter ten microns or less in diameter
SO <sub>2</sub> .....	sulfur dioxide
NO <sub>x</sub> .....	nitrogen oxides
VOC .....	volatile organic compound
CO.....	carbon monoxide
HAP.....	hazardous air pollutant

# I. Facility Description and Equipment List

Facility Name: Modernfold Inc.

Permit Number: 99-TV-031R1

Facility Description: Operable Wall Manufacturing (SIC 2542)

## Equipment List

Emission Point Number	Emission Unit Number	Emission Unit Description	IDNR Construction Permit Number
03	05	Passdoor Paint Booth	91-A-203-S4
04A	06	Nordson Paint Booth	91-A-204-S2
04B			97-A-550-S1
04C			97-A-551-S1
05	07-A1	Sizer Saw	91-A-205-S2
	07-A2	Sizer Saw	
	07-B1	Rodger Panel Saw	
	07-B2	Rodger Panel Saw	
	07-C	In-Line Rip Saw	
	07-D1	Rework Sanding	
	07-D2	Rework Sanding	
06	09	Jamb Adhesive Spray Booth	95-A-761-S3
07	10	Steel to Gypsum Spray Booth (20ft)	95-A-760-S4
09	12	900 Covering Line 1	95-A-763-S5
10	13	900 Covering Line 2	95-A-764-S5
11	14	900 Covering Line 3	95-A-765-S5
12	15	900 Covering Line 4	95-A-766-S5
14	17	900 Laminator	04-A-594
16	19	Aerosol Adhesive Touch-up & Packing	04-A-595-S1
17	20	Naptha Wipe Down	04-A-596
22	25	900H Covering Line 5A	97-A-548-S4
23	26	900H Covering Line 6	97-A-549-S4
26	29	Aerosol Touch-up Painting	04-A-597
30	33	Expandable Nose Spray	99-A-045-S3
35	38	Steel to Gypsum Spray Booth (30ft)	01-A-034
37	40A	Kerfing Saw	01-A-035
	40B	Kerfing Saw	
38	41	Panel Covering	01-A-036
39	42	Fabric Spray Adhesive	01-A-037
44	47	Adhesive Post Spray	04-A-1057
45	48	Adhesive Spray 30ft Dual Exhaust	05-A-558-S1

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### Insignificant Activities Equipment List

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Insignificant Emission Unit Number	Insignificant Emission Unit Description
04	Burnham Boiler (5.24 MMBtu/hr.)*
23	Make-up Air Units
27	Track Dip Tank Heater
28	Channel Dip Tank Heater
30	Curing Ovens
31A-C	Arc Welding (7 units)
31E	Resistance Welding (12 units)
31F	Controlled Arc Welding (5 units)
32	Wood Cutting
45	Metal Working
46	Touch-Up Painting

\* This boiler is subject to 40 CFR 63 Subpart DDDDD – NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters. According to 40 CFR 63.7506(c), existing small gaseous fueled boilers are not subject to the initial notification requirements in 63.9(b) and are not subject to any requirements in Subparts DDDDD or A of 40 CFR 63.

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### Insignificant Activities Equipment List (Small Unit Exemption) <sup>(1)</sup>

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Insignificant Emission Unit Number	Insignificant Emission Unit Description
43	Adhesive Spray Audio Wall
49	Adhesive Post Spray
50	Laminator Heat Exhaust

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<sup>(2)</sup> Emission Units qualify for Small Unit Exemption under 567 IAC 22.1(2)"w". Records shall be kept in accordance with 567 IAC 22.1(2)"w"(3).

## II. Plant-Wide Conditions

Facility Name: Modernfold Inc.

Permit Number: 99-TV-031R1

Permit conditions are established in accord with 567 Iowa Administrative Code rule 22.108

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### Permit Duration

The term of this permit is: Five (5) years from permit issuance

Commencing on: February 7, 2007

Ending on: February 6, 2012

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code rules 22.110 - 22.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 22.115.

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### Emission Limits

*Unless specified otherwise in the Source Specific Conditions, the following limitations and supporting regulations apply to all emission points at this plant:*

Opacity (visible emissions): 40% opacity

Authority for Requirement: 567 IAC 23.3(2)"d"

Sulfur Dioxide (SO<sub>2</sub>): 500 parts per million by volume

Authority for Requirement: 567 IAC 23.3(3)"e"

Particulate Matter (state enforceable only)<sup>2</sup>:

No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).

Authority for Requirement: 567 IAC 23.3(2)"a" (as revised 7/21/1999)

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<sup>2</sup> Pending approval into Iowa's State Implementation Plan (SIP), paragraph 567 IAC 23.3(2)"a" (as revised 7/21/1999) is considered *state enforceable only*.

### Particulate Matter<sup>3</sup>:

The emission of particulate matter from any process shall not exceed the amount determined from Table I, except as provided in 567 — 21.2(455B), 23.1(455B), 23.4(455B) and 567 — Chapter 24. If the director determines that a process complying with the emission rates specified in Table I is causing or will cause air pollution in a specific area of the state, an emission standard of 0.1 grain per standard cubic foot of exhaust gas may be imposed.

Authority for Requirement: 567 IAC 23.3(2)"a" (prior to 7/21/1999)

Fugitive Dust: Attainment and Unclassified Areas - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizers or limestone.
4. Covering at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.

Authority for Requirement: 567 IAC 23.3(2)"c"

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### **Compliance Plan**

*The owner/operator shall comply with the applicable requirements listed below. The compliance status is based on information provided by the applicant.*

Unless otherwise noted in Section III of this permit, Modernfold Inc. is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which become effective during the permit term, Modernfold Inc. shall comply with such requirements in a timely manner.

Authority for Requirement: 567 IAC 22.108(15)

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<sup>3</sup> Paragraph 567 IAC 23.3(2)"a" (prior to 7/21/1999) is the general particulate matter emission standard currently in the Iowa SIP.

### III. Emission Point-Specific Conditions

Facility Name: Modernfold Inc.

Permit Number: **99-TV-031R1**

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#### Emission Point ID Number: 03

##### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
05	Passdoor Paint Booth	CE-03: Dry Filters	Coatings	0.24 gal/hr.	91-A-203-S4

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##### Applicable Requirements

##### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 91-A-203-S4  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 91-A-203-S4  
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC's)

Emission Limit(s): 7.88 tons/yr.<sup>(2)</sup>

Authority for Requirement: Iowa DNR Construction Permit 91-A-203-S4

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

<sup>(2)</sup> Standard is a 12-month rolling total



### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. The amount of material (i.e. coatings and solvents) used in this emissions unit shall not exceed 2100 gallons in any rolling, 12-month period.
2. The VOC content of any coating or solvent used in this emissions unit shall not exceed 7.5 pounds per gallon.

Reporting & Record keeping:

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The identification and the VOC content of each material (i.e. coatings and solvents) used in this emissions unit.
2. The amount of material (i.e. coatings and solvents) used in this emissions unit (gallons).
3. The rolling, 12-month total of the amount of material (i.e. coatings and solvents) used in the emissions unit (gallons).

Authority for Requirement: Iowa DNR Construction Permit 91-A-203-S4

NESHAP:

This emission unit is subject to 40 CFR 63 Subpart RRRR – National Emissions Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture. Please see Appendix A for applicable rule text.

1. Organic HAP emissions to the atmosphere shall not exceed 0.83 pounds per gallon of coating solids.

Authority for Requirement: 40 CFR 63.4890(c)  
567 IAC 23.1(4)"cr"

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 20.8

Stack Opening, (inches, dia.): 30

Exhaust Flow Rate (scfm): 11,400

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 91-A-203-S4

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**

*(See Appendix B)*

Yes ☒ No ☐

**Facility Maintained Operation & Maintenance Plan Required?**

Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?**

Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

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## Emission Point ID Numbers: 04A, 04B, 04C

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
06	Nordson Paint Booth	CE-04: Paint Arrestor Filters	Paint Solvent	0.11 gal/hr. 0.06 gal/hr.	See Below

EP	Construction Permit
04A	91-A-204-S2
04B	97-A-550-S1
04C	97-A-551-S1

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### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from each of these emission points shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permits 91-A-204-S2, 97-A-550-S1,  
97-A-551-S1  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: Iowa DNR Construction Permits 91-A-204-S2, 97-A-550-S1,  
97-A-551-S1  
567 IAC 23.4(13)

<sup>(1)</sup> An exceedance of the indicator opacity of "no visible emissions" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. The maximum throughput of paint for this emission unit shall not exceed 3,000 gallons total per twelve month rolling period. The maximum VOC content of this material shall not exceed 5.88 lbs VOC/gal.
2. The maximum throughput of solvent for this emission unit shall not exceed 1,650 gallons total per twelve month rolling period. The maximum VOC content of this material shall not exceed 7.26 lbs VOC/gal.

Reporting & Record keeping:

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. A record of the amount of material used in this emission unit shall be recorded monthly, with the rolling twelve month total updated at the end of the month.
2. MSDS sheets listing the VOC content for all the materials used at this source shall be kept with these records.

Authority for Requirement: Iowa DNR Construction Permits 91-A-204-S2, 97-A-550-S1, 97-A-551-S1

NESHAP:

This emission unit is subject to 40 CFR 63 Subpart RRRR – National Emissions Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture. Please see Appendix A for applicable rule text.

1. Organic HAP emissions to the atmosphere shall not exceed 0.83 pounds per gallon of coating solids.

Authority for Requirement: 40 CFR 63.4890(c)  
567 IAC 23.1(4)"cr"

### **Emission Point Characteristics**

*Each of these emission points shall conform to the specifications listed below.*

<b>Emission Point</b>	<b>04A</b>	<b>04B</b>	<b>04C</b>
Stack Height, (ft, from the ground)	29	29	29
Stack Opening, (inches, dia.)	18	24	18
Exhaust Flow Rate (acfm)	5,000	8,000	5,000
Exhaust Temperature (°F)	Ambient	Ambient	Ambient
Discharge Style	Vertical Unobstructed	Vertical Unobstructed	Vertical Unobstructed
Authority for Requirement	91-A-204-S2	97-A-550-S1	97-A-551-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**

*(See Appendix B)*

Yes ☒ No ☐

**Facility Maintained Operation & Maintenance Plan Required?**

Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?**

Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 05****Associated Equipment**

<b>Emission Unit</b>	<b>Emission Unit Description</b>	<b>Control Equipment</b>	<b>Raw Material</b>	<b>Rated Capacity</b>	<b>Construction Permit</b>
07-A1	Sizer Saw	CE-05: Cartridge Dust Collector	Gypsum/Particleboard	616 feet/hr.	91-A-205-S2
07-A2	Sizer Saw		Gypsum/Particleboard	616 feet/hr.	
07-B1	Rodger Panel Saw		Gypsum/Particleboard	272 feet/hr.	
07-B2	Rodger Panel Saw		Gypsum/Particleboard	272 feet/hr.	
07-C	In-Line Rip Saw		Gypsum/Particleboard	120 feet/hr.	
07-D1	Rework Sanding		Gypsum/Particleboard	0.004 feet/hr.	
07-D2	Rework Sanding		Gypsum/Particleboard	0.004 feet/hr.	

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**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 91-A-205-S2  
567 IAC 23.3(2)"d"

Pollutant: PM-10

Emission Limit(s): 0.6 lb/hr.

Authority for Requirement: Iowa DNR Construction Permit 91-A-205-S2

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/scf, 5.1 lb/hr.

Authority for Requirement: Iowa DNR Construction Permit 91-A-205-S2  
567 IAC 23.3(2)"a"

<sup>(1)</sup> An exceedance of the indicator opacity of "no visible emissions" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 16.25

Stack Opening, (inches, dia.): 22

Exhaust Flow Rate (scfm): 9,500

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 91-A-205-S2

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes ☒ No ☐  
(See Appendix C)

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 06****Associated Equipment**

<b>Emission Unit</b>	<b>Emission Unit Description</b>	<b>Control Equipment</b>	<b>Raw Material</b>	<b>Rated Capacity</b>	<b>Construction Permit</b>
09	Jamb Adhesive Spray Booth	CE-06: Dry Air Filters	Adhesive	0.23 gal/hr.	95-A-761-S3

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**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 95-A-761-S3  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 95-A-761-S3  
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC's)

Emission Limit(s): 9.03 tons/yr.<sup>(2)</sup>

Authority for Requirement: Iowa DNR Construction Permit 95-A-761-S3

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

<sup>(2)</sup> Standard is a 12-month rolling total

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. The amount of material (i.e. coatings and solvents) used in this emissions unit shall not exceed 2000 gallons in any rolling, 12-month period.
2. The VOC content of any material (i.e. coating or solvent) used in this emissions unit shall not exceed 9.03 pounds per gallon.



**Reporting & Record keeping:**

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The identification and the VOC content of each material (i.e. coatings and solvents) used in this emissions unit.
2. The amount of material (i.e. coatings and solvents) used in this emissions unit (gallons).
3. The rolling, 12-month total of the amount of material (i.e. coatings and solvents) used in the emissions unit (gallons).

Authority for Requirement: Iowa DNR Construction Permit 95-A-761-S3

**NESHAP:**

This emission unit is subject to 40 CFR 63 Subpart RRRR – National Emissions Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture. Please see Appendix A for applicable rule text.

1. Organic HAP emissions to the atmosphere shall not exceed 0.83 pounds per gallon of coating solids.

Authority for Requirement: 40 CFR 63.4890(c)  
567 IAC 23.1(4)"cr"

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 24

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 8,000

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 95-A-761-S3

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**  
(See Appendix B)

Yes ☒ No ☐

**Facility Maintained Operation & Maintenance Plan Required?**

Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?**

Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

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## Emission Point ID Number: 07

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
10	Steel to Gypsum Spray Booth (20ft)	CE-07: Mesh Filter	Adhesive	13.60 gal/hr.	95-A-760-S4

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### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 95-A-760-S4  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 95-A-760-S4  
567 IAC 23.4(13)

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

#### Operational Limits & Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. Contact adhesive use shall not exceed a maximum of 12,000 gallons per twelve month rolling period. The maximum VOC content of the material shall not exceed 0.07 lb VOC/gallon.
2. The solids content of the adhesive shall not exceed 6.0 lb solids/gallon.
3. Two spray guns with a rated capacity not to exceed 6.8 gallons/hr (each) are allowed in the spray booth at any one time.

**Reporting & Record keeping:**

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. A record of the amount of material used in this booth shall be recorded monthly, with the rolling twelve month total updated at the end of the month.
2. MSDS sheets listing the VOC and solids content for all the materials used at this source shall be kept with these records.
3. A record of the number of spray guns and their maximum rated spray capacity.

Authority for Requirement: Iowa DNR Construction Permit 95-A-760-S4

**NESHAP:**

This emission unit is subject to 40 CFR 63 Subpart RRRR – National Emissions Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture. Please see Appendix A for applicable rule text.

1. Organic HAP emissions to the atmosphere shall not exceed 0.83 pounds per gallon of coating solids.

Authority for Requirement: 40 CFR 63.4890(c)  
567 IAC 23.1(4)"cr"

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 21

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 8,000

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 95-A-760-S4

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**  
(See Appendix B)

Yes ☒ No ☐

**Facility Maintained Operation & Maintenance Plan Required?**

Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?**

Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

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## Emission Point ID Numbers: 09, 10, 11, 12

### Associated Equipment

Emission Point	Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
09	12	900 Covering Line 1	CE-09: Air Filters	Adhesive	0.30 gal/hr.	95-A-763-S5
10	13	900 Covering Line 2	CE-10: Air Filters	Adhesive	0.30 gal/hr.	95-A-764-S5
11	14	900 Covering Line 3	CE-11: Air Filters	Adhesive	0.30 gal/hr.	95-A-765-S5
12	15	900 Covering Line 4	CE-12: Air Filters	Adhesive	0.30 gal/hr.	95-A-766-S5

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### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from each of these emission points shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permits 95-A-763-S5, 95-A-764-S5,  
95-A-765-S5, 95-A-766-S5  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: Iowa DNR Construction Permits 95-A-763-S5, 95-A-764-S5,  
95-A-765-S5, 95-A-766-S5  
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC's)

Emission Limit(s): 8.57 tons/yr.<sup>(2)</sup>

Authority for Requirement: Iowa DNR Construction Permits 95-A-763-S5, 95-A-764-S5,  
95-A-765-S5, 95-A-766-S5

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

<sup>(2)</sup> Standard is a 12-month rolling total

## **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

### Process throughput:

1. The amount of solvent based material<sup>(1)</sup> (i.e. coatings and solvents) used in each of these emission units shall not exceed 1875 gallons in any rolling, 12-month period.
2. The VOC content of any solvent based material (i.e. coating or solvent) used in each of these emission units shall not exceed 9.03 pounds per gallon.
3. The amount of all other materials (i.e. non-solvent based coatings and solvents) used in each of these emission units shall not exceed 2625 gallons in any rolling, 12-month period.
4. The VOC content of other materials (i.e. non-solvent based coatings or solvents) used in each of these emission units shall not exceed 0.08 pound per gallon.

<sup>(1)</sup> A solvent based material is a material that contains only solids and organic solvents.

### Reporting & Record keeping:

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The identification and the VOC content of each material (i.e. coatings and solvents) used in each of these emission units.
2. The amount of solvent based material (i.e. coatings and solvents) used in each of these emission units (gallons).
3. The amount of non-solvent based material (i.e. coatings and solvents) used in each of these emission units (gallons).
4. The rolling, 12-month total of the amount of solvent based material (i.e. coatings and solvents) used in each of these emission units (gallons).
5. The rolling, 12-month total of the amount of non-solvent based material (i.e. coatings and solvents) used in each of these emission units (gallons).

Authority for Requirement: Iowa DNR Construction Permits 95-A-763-S5, 95-A-764-S5, 95-A-765-S5, 95-A-766-S5

### NESHAP:

These emission units are subject to 40 CFR 63 Subpart RRRR – National Emissions Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture. Please see Appendix A for applicable rule text.

1. Organic HAP emissions to the atmosphere shall not exceed 0.83 pounds per gallon of coating solids.

Authority for Requirement: 40 CFR 63.4890(c)  
567 IAC 23.1(4)"cr"

### **Emission Point Characteristics**

*Each of these emission points shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 22

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 8,500

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permits 95-A-763-S4, 95-A-764-S5,  
95-A-765-S5, 95-A-766-S5

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**

Yes ☒ No ☐

*(See Appendix B)*

**Facility Maintained Operation & Maintenance Plan Required?**

Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?**

Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 14 (Vents Internally)****Associated Equipment**

<b>Emission Unit</b>	<b>Emission Unit Description</b>	<b>Control Equipment</b>	<b>Raw Material</b>	<b>Rated Capacity</b>	<b>Construction Permit</b>
17	900 Laminator	NA	Adhesive	2.28 gal/hr.	04-A-594

---

**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 04-A-594  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: 567 IAC 23.4(13)

<sup>(1)</sup> An exceedance of the indicator opacity of "no visible emissions" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. The VOC content of the VOC-containing materials (i.e., adhesive, solvent, etc.), as applied, used in the emission unit, EU 17, shall not exceed 6.6 lb/gal.
2. The maximum amount of VOC-containing material (i.e., adhesive, solvent, etc.) used in the emission unit shall not exceed 20,000 gallons per 12-month rolling period.

**Reporting & Record keeping:**

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The permit holder, owner and operator of the facility shall maintain a log of all materials, as applied, used in the affected emission unit, EU 17, and their respective VOC content (in lb/gal).
2. The permit holder, owner and operator of the facility shall maintain a copy of the Material Safety Data Sheet (MSDS) for each material used in this emission unit.
3. The permit holder, owner and operator of the facility shall calculate and record the cumulative amount of VOC-containing material (i.e., adhesive, solvent, etc.) used in the emission unit on a rolling-12-month basis for each month of operation.

Authority for Requirement: Iowa DNR Construction Permit 04-A-594

**NESHAP:**

This emission unit is subject to 40 CFR 63 Subpart RRRR – National Emissions Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture. Please see Appendix A for applicable rule text.

1. Organic HAP emissions to the atmosphere shall not exceed 0.83 pounds per gallon of coating solids.

Authority for Requirement: 40 CFR 63.4890(c)  
567 IAC 23.1(4)"cr"

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)



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**Emission Point ID Number: 16 (Vents Internally)****Associated Equipment**

<b>Emission Unit</b>	<b>Emission Unit Description</b>	<b>Control Equipment</b>	<b>Raw Material</b>	<b>Rated Capacity</b>	<b>Construction Permit</b>
19	Aerosol Adhesive Touch-up & Packing	NA	Aerosol Adhesive	7.0 gal/hr.	04-A-595-S1

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**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 04-A-595-S1  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 04-A-595-S1  
567 IAC 23.4(13)

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. The VOC Content of the VOC-containing materials (i.e., adhesive, solvent, etc.), as applied, used in this emission unit shall not exceed 5.5 lb/gal.
2. The Maximum amount of VOC-containing material (i.e., adhesive, solvent, etc.), used in this emission unit shall not exceed 200 gallons per 12-month rolling period.

**Reporting & Record keeping:**

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The permit holder, owner and operator of the facility shall maintain a log of all materials, as applied, used in this emission unit, and their respective VOC content (in lb/gal.)
2. The permit holder, owner and operator of the facility shall maintain a copy of the Material Safety Data Sheet (MSDS) for each material used in this emission unit.
3. The permit holder, owner and operator of the facility shall calculate and record the cumulative amount of VOC-containing material (i.e., adhesive, solvent, etc.) used in this emission unit on a rolling 12-month basis for each month of operation.

Authority for Requirement: Iowa DNR Construction Permit 04-A-595-S1

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 17 (Vents Internally)****Associated Equipment**

<b>Emission Unit</b>	<b>Emission Unit Description</b>	<b>Control Equipment</b>	<b>Raw Material</b>	<b>Rated Capacity</b>	<b>Construction Permit</b>
20	Naptha Wipe Down	NA	Naptha	0.11 gal/hr.	04-A-596

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**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 04-A-596  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: 567 IAC 23.4(13)

<sup>(1)</sup> An exceedance of the indicator opacity of "no visible emissions" will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. The VOC content of the VOC-containing materials (i.e., adhesive, solvent, etc.), as applied, used in the emission unit, EU 20, shall not exceed 6.4 lb/gal.
2. The maximum amount of VOC-containing material (i.e., adhesive, solvent, etc.) used in the emission unit shall not exceed 1,000 gallons per 12-month rolling period.

**Reporting & Record keeping:**

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The permit holder, owner and operator of the facility shall maintain a log of all materials, as applied, used in the affected emission unit, EU 20, and their respective VOC content (in lb/gal).
2. The permit holder, owner and operator of the facility shall maintain a copy of the Material Safety Data Sheet (MSDS) for each material used in this emission unit.
3. The permit holder, owner and operator of the facility shall calculate and record the cumulative amount of VOC-containing material (i.e., adhesive, solvent, etc.) used in the emission unit on a rolling-12-month basis for each month of operation.

Authority for Requirement: Iowa DNR Construction Permit 04-A-596

**NESHAP:**

This emission unit is subject to 40 CFR 63 Subpart RRRR – National Emissions Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture. Please see Appendix A for applicable rule text.

1. Organic HAP emissions to the atmosphere shall not exceed 0.83 pounds per gallon of coating solids.

Authority for Requirement: 40 CFR 63.4890(c)  
567 IAC 23.1(4)"cr"

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

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## Emission Point ID Number: 22

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
25	900H Covering Line 5A	CE-22: Air Filters	Adhesive	1.14 gal/hr.	97-A-548-S4

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### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 97-A-548-S4  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 97-A-548-S4  
567 IAC 23.4(13)

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

#### Operational Limits & Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. Water-based material usage shall not exceed 10,000 gallons per twelve-month rolling period, at a maximum VOC content of 0.1 lb VOC/gallon.
2. Solvent-based material usage shall not exceed 2,000 gallons per twelve-month rolling period, at a maximum VOC content of 9.5 lb VOC/gallon.

Reporting & Record keeping:

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. A record of the amount of each material used at this source shall be recorded monthly, with the rolling twelve-month total for each material type updated at the end of the month. MSDS sheets listing the VOC content of all materials used shall be kept with these records.

Authority for Requirement: Iowa DNR Construction Permit 97-A-548-S4

NESHAP:

This emission unit is subject to 40 CFR 63 Subpart RRRR – National Emissions Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture. Please see Appendix A for applicable rule text.

1. Organic HAP emissions to the atmosphere shall not exceed 0.83 pounds per gallon of coating solids.

Authority for Requirement: 40 CFR 63.4890(c)  
567 IAC 23.1(4)"cr"

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 23

Stack Opening, (inches, dia.): 34

Exhaust Flow Rate (scfm): 17,500

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical

Authority for Requirement: Iowa DNR Construction Permit 97-A-548-S4

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**

*(See Appendix B)*

Yes ☒ No ☐

**Facility Maintained Operation & Maintenance Plan Required?**

Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?**

Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 23****Associated Equipment**

<b>Emission Unit</b>	<b>Emission Unit Description</b>	<b>Control Equipment</b>	<b>Raw Material</b>	<b>Rated Capacity</b>	<b>Construction Permit</b>
26	900 H Covering Line 6	CE-23: Air Filters	Adhesive	1.14 gal/hr.	97-A-549-S4

---

**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 97-A-549-S4  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 97-A-549-S4  
567 IAC 23.4(13)

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. Water-based material usage shall not exceed 10,000 gallons per twelve-month rolling period, at a maximum VOC content of 0.1 lb VOC/gallon.
2. Solvent-based material usage shall not exceed 2,000 gallons per twelve-month rolling period, at a maximum VOC content of 9.5 lb VOC/gallon.

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. A record of the amount of each material used at this source shall be recorded monthly, with the rolling twelve-month total for each material type updated at the end of the month. MSDS sheets listing the VOC content of all materials used shall be kept with these records.

Authority for Requirement: Iowa DNR Construction Permit 97-A-549-S4

NESHAP:

This emission unit is subject to 40 CFR 63 Subpart RRRR – National Emissions Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture. Please see Appendix A for applicable rule text.

1. Organic HAP emissions to the atmosphere shall not exceed 0.83 pounds per gallon of coating solids.

Authority for Requirement: 40 CFR 63.4890(c)  
567 IAC 23.1(4)"cr"

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 23

Stack Opening, (inches, dia.): 343

Exhaust Flow Rate (scfm): 17,500

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical

Authority for Requirement: Iowa DNR Construction Permit 97-A-549-S4

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes ☒ No ☐  
(See Appendix B)

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)



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## Emission Point ID Number: 26 (Vents Internally)

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
29	Aerosol Touch-up Painting	NA	Touch-up Paint	0.01 gal/hr.	04-A-597

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### Applicable Requirements

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 04-A-597  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 04-A-597  
567 IAC 23.4(13)

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

#### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. The VOC content of the VOC-containing materials (i.e., paint, solvent, etc.), as applied, used in the emission unit, EU 29, shall not exceed 5.5 lb/gal.
2. The maximum amount of VOC-containing material (i.e., paint, solvent, etc.) used in the emission unit shall not exceed 100 gallons per 12-month rolling period.

**Reporting & Record keeping:**

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The permit holder, owner and operator of the facility shall maintain a log of all materials, as applied, used in the affected emission unit, EU 29, and their respective VOC content (in lb/gal).
2. The permit holder, owner and operator of the facility shall maintain a copy of the Material Safety Data Sheet (MSDS) for each material used in this emission unit.
3. The permit holder, owner and operator of the facility shall calculate and record the cumulative amount of VOC-containing material (i.e., paint, solvent, etc.) used in the emission unit on a rolling-12-month basis for each month of operation.

Authority for Requirement: Iowa DNR Construction Permit 04-A-597

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

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## Emission Point ID Number: 30

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
33	Expandable Nose Spray	CE-30: Pleat Filter	Coating/Solvent	0.17 pounds/hr.	99-A-045-S3

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### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 99-A-045-S3  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 99-A-045-S3  
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC's)

Emission Limit(s): 6.77 tons/yr.<sup>(2)</sup>

Authority for Requirement: Iowa DNR Construction Permit 99-A-045-S3

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

<sup>(2)</sup> Standard is a 12-month rolling total

#### Operational Limits & Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. The amount of material (i.e. coatings and solvents) used in this emissions unit shall not exceed 1500 gallons in any rolling, 12-month period.
2. The VOC content of any material (i.e. coating or solvent) used in this emissions unit shall not exceed 9.03 pounds per gallon.
3. No more than 2 spray guns may be used simultaneously.
4. The dry filters shall be maintained and replaced per the manufacturer's specifications.

**Reporting & Record keeping:**

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The permittee shall maintain the following monthly records:
  - (a) The identification and the VOC content of each material (i.e. coatings and solvents) used in this emissions unit.
  - (b) The amount of material (i.e. coatings and solvents) used in this emissions unit (gallons).
  - (c) The rolling, 12-month total of the amount of material (i.e. coatings and solvents) used in the emissions unit (gallons).
2. The permittee shall maintain a record of the maintenance and the replacement of the dry filters.

Authority for Requirement: Iowa DNR Construction Permit 99-A-045-S3

**NESHAP:**

This emission unit is subject to 40 CFR 63 Subpart RRRR – National Emissions Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture. Please see Appendix A for applicable rule text.

1. Organic HAP emissions to the atmosphere shall not exceed 0.83 pounds per gallon of coating solids.

Authority for Requirement: 40 CFR 63.4890(c)  
567 IAC 23.1(4)"cr"

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 24

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 8,500

Exhaust Temperature (°F): 70

Discharge Style: Vertical Unobstructed

Authority for Requirement: Iowa DNR Construction Permit 99-A-045-S3

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**

*(See Appendix B)*

Yes ☒ No ☐

**Facility Maintained Operation & Maintenance Plan Required?**

Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?**

Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

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## Emission Point ID Number: 35

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
38	Steel to Gypsum Spray Booth (30ft)	CE-35: Mesh Filters	Adhesive	5.14 gal/hr.	01-A-034

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### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 01-A-034  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 01-A-034  
567 IAC 23.4(13)

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

#### Operational Limits & Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. The adhesives used in this booth shall have a maximum VOC content of 0.063 pound per gallon.
2. Annual consumption of adhesive through this booth shall not exceed 45,000 gallons, rolling 12-month total, computed monthly.

Reporting & Record keeping:

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner/operator of this emission unit shall maintain records of the VOC content of adhesives used in the booth.
2. The owner/operator of this emission unit shall maintain records of the consumption of adhesive, measured in gallons.

Authority for Requirement: Iowa DNR Construction Permit 01-A-034

NESHAP:

This emission unit is subject to 40 CFR 63 Subpart RRRR – National Emissions Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture. Please see Appendix A for applicable rule text.

1. Organic HAP emissions to the atmosphere shall not exceed 0.83 pounds per gallon of coating solids.

Authority for Requirement: 40 CFR 63.4890(c)  
567 IAC 23.1(4)"cr"

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 36.5

Stack Opening, (inches, dia.): 24

Exhaust Flow Rate (scfm): 8,500

Exhaust Temperature (°F): 70

Discharge Style: Vertical

Authority for Requirement: Iowa DNR Construction Permit 01-A-034

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes ☒ No ☐  
(See Appendix B)

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 37****Associated Equipment**

<b>Emission Unit</b>	<b>Emission Unit Description</b>	<b>Control Equipment</b>	<b>Raw Material</b>	<b>Rated Capacity</b>	<b>Construction Permit</b>
40A	Kerfing Saw	CE-37A: Dust Collector CE-37B: Cyclone	Gypsum	210,000 ft <sup>3</sup> /hr.	01-A-035
40B	Kerfing Saw		Gypsum	210,000 ft <sup>3</sup> /hr.	

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**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 01-A-035  
567 IAC 23.3(2)"d"

Pollutant: PM-10

Emission Limit(s): 0.9 lb/hr.

Authority for Requirement: Iowa DNR Construction Permit 01-A-035

Pollutant: Particulate Matter

Emission Limit(s): 0.1 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 01-A-035  
567 IAC 23.3(2)"a"

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).



### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 30

Stack Opening, (inches, dia.): 12

Exhaust Flow Rate (scfm): 3,500

Exhaust Temperature (°F): 70

Discharge Style: Downward

Authority for Requirement: Iowa DNR Construction Permit 01-A-035

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☒ No ☐  
*(Required for CE-37B)*

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes ☒ No ☐  
*(See Appendix C)*

*Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.*

*Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.*

*Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.*

Authority for Requirement: 567 IAC 22.108(3)

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## Emission Point ID Number: 38

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
41	Panel Covering	CE-38: Mesh Filters	Adhesive	0.46 gal/hr.	01-A-036

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### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 01-A-036  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 01-A-036  
567 IAC 23.4(13)

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

#### Operational Limits & Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. The adhesives used in this booth shall have a maximum VOC content of 9.02 pounds per gallon.
2. Annual consumption of adhesive through this booth shall not exceed 4,000 gallons, rolling 12-month total, computed monthly.

Reporting & Record keeping:

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner/operator of this emission unit shall maintain records of the VOC content of adhesives used in the booth.
2. The owner/operator of this emission unit shall maintain records of the consumption of adhesive, measured in gallons.

Authority for Requirement: Iowa DNR Construction Permit 01-A-036

NESHAP:

This emission unit is subject to 40 CFR 63 Subpart RRRR – National Emissions Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture. Please see Appendix A for applicable rule text.

1. Organic HAP emissions to the atmosphere shall not exceed 0.83 pounds per gallon of coating solids.

Authority for Requirement: 40 CFR 63.4890(c)  
567 IAC 23.1(4)"cr"

### **Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 36.5

Stack Opening, (inches, dia.): 34

Exhaust Flow Rate (scfm): 17,500

Exhaust Temperature (°F): 70

Discharge Style: Vertical

Authority for Requirement: Iowa DNR Construction Permit 01-A-036

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes ☒ No ☐  
(See Appendix B)

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

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## Emission Point ID Number: 39

### Associated Equipment

Emission Unit	Emission Unit Description	Control Equipment	Raw Material	Rated Capacity	Construction Permit
42	Fabric Spray Adhesive	CE-39: Mesh Filters	Adhesive	0.46 gal/hr.	01-A-037

---

### Applicable Requirements

#### Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 01-A-037  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 01-A-037  
567 IAC 23.4(13)

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

#### Operational Limits & Requirements

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. The adhesives used in this booth shall have a maximum VOC content of 9.02 pounds per gallon.
2. Annual consumption of adhesive through this booth shall not exceed 4,000 gallons, rolling 12-month total, computed monthly.

Reporting & Record keeping:

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The owner/operator of this emission unit shall maintain records of the VOC content of adhesives used in the booth.
2. The owner/operator of this emission unit shall maintain records of the consumption of adhesive, measured in gallons.

Authority for Requirement: Iowa DNR Construction Permit 01-A-037

**NESHAP:**

This emission unit is subject to 40 CFR 63 Subpart RRRR – National Emissions Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture. Please see Appendix A for applicable rule text.

1. Organic HAP emissions to the atmosphere shall not exceed 0.83 pounds per gallon of coating solids.

Authority for Requirement: 40 CFR 63.4890(c)  
567 IAC 23.1(4)"cr"

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 36.5

Stack Opening, (inches, dia.): 34

Exhaust Flow Rate (scfm): 17,500

Exhaust Temperature (°F): 70

Discharge Style: Vertical

Authority for Requirement: Iowa DNR Construction Permit 01-A-037

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**

*(See Appendix B)*

Yes ☒ No ☐

**Facility Maintained Operation & Maintenance Plan Required?**

Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?**

Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 44****Associated Equipment**

<b>Emission Unit</b>	<b>Emission Unit Description</b>	<b>Control Equipment</b>	<b>Raw Material</b>	<b>Rated Capacity</b>	<b>Construction Permit</b>
47	Adhesive Post Spray	CE-44: Dry Filters	Adhesive	6.00 pounds/hr.	04-A-1057

---

**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 04-A-1057  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 04-A-1057  
567 IAC 23.4(13)

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. The maximum VOC content of the materials (contact adhesives and solvents) used in the emission unit, Adhesive Post Spray, shall not exceed 9.02 lb/gal.
2. The maximum amount of VOC-containing material used in the emission unit shall not exceed 1000 gallons per 12-month rolling period.

**Reporting & Record keeping:**

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. The permit holder, owner and operator of the facility shall maintain a log of all materials used in the affected emission unit, EU 47, and their respective VOC content (in lb/gal).
2. The permit holder, owner and operator of the facility shall maintain a copy of the Material Safety Data Sheet (MSDS) for each material used in this emission unit.
3. The permit holder, owner and operator of the facility shall calculate and record the cumulative amount of VOC-containing material used in the emission unit on a rolling-12-month basis for each month of operation.

Authority for Requirement: Iowa DNR Construction Permit 04-A-1057

**NESHAP:**

This emission unit is subject to 40 CFR 63 Subpart RRRR – National Emissions Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture. Please see Appendix A for applicable rule text.

1. Organic HAP emissions to the atmosphere shall not exceed 0.83 pounds per gallon of coating solids.

Authority for Requirement: 40 CFR 63.4890(c)  
567 IAC 23.1(4)"cr"

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 32

Stack Opening, (inches, dia.): 30

Exhaust Flow Rate (scfm): 14,145

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Obstructed

Authority for Requirement: Iowa DNR Construction Permit 04-A-1057

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**  
(See Appendix B)

Yes ☒ No ☐

**Facility Maintained Operation & Maintenance Plan Required?**

Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?**

Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

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**Emission Point ID Number: 45****Associated Equipment**

<b>Emission Unit</b>	<b>Emission Unit Description</b>	<b>Control Equipment</b>	<b>Raw Material</b>	<b>Rated Capacity</b>	<b>Construction Permit</b>
48	Adhesive Spray 30ft Dual Exhaust	CE-45: Dry Filters	Adhesive	7.5 gal/hr.	05-A-558-S1

---

**Applicable Requirements****Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limit(s): 40 %<sup>(1)</sup>

Authority for Requirement: Iowa DNR Construction Permit 05-A-558-S1  
567 IAC 23.3(2)"d"

Pollutant: PM-10

Emission Limit(s): 1.67 lb/hr.<sup>(2)</sup>

Authority for Requirement: Iowa DNR Construction Permit 05-A-558-S1

Pollutant: Particulate Matter

Emission Limit(s): 0.01 gr/scf

Authority for Requirement: Iowa DNR Construction Permit 05-A-558-S1  
567 IAC 23.4(13)

<sup>(1)</sup> An exceedance of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedance. If exceedances continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

<sup>(2)</sup> Standard is expressed as the average of 3 runs

**Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

Process throughput:

1. The maximum VOC content of the materials (contact adhesives and solvents) used in the emission unit, Adhesive Spray 30' Dual, shall not exceed 3.22 lb/gal.
2. The maximum amount of VOC-containing material used in the emission unit shall not exceed 4000 gallons per 12-month rolling period.



**Reporting & Record keeping:**

*Records shall be kept on site for at least five years and shall be available for inspection by the Department.*

1. A log of all materials used in this emission unit and their respective VOC contents.
2. A copy of the Material Safety Data Sheet (MSDS) for each material used in this emission unit.
3. Upon issuance of this permit, calculate the total amount of VOC containing materials used in this emission unit for the twelve (12) months previous to the issuance of this permit.
4. After the issuance of this permit, determine the annual amount of VOC containing materials used in this emission unit on a rolling-12-month basis for each month of operation.

Authority for Requirement: Iowa DNR Construction Permit 05-A-558-S1

**NESHAP:**

This emission unit is subject to 40 CFR 63 Subpart RRRR – National Emissions Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture. Please see Appendix A for applicable rule text.

1. Organic HAP emissions to the atmosphere shall not exceed 0.83 pounds per gallon of coating solids.

Authority for Requirement: Iowa DNR Construction Permit 05-A-558-S1

40 CFR 63.4890(a)

567 IAC 23.1(4)"cr"

**Emission Point Characteristics**

*The emission point shall conform to the specifications listed below.*

Stack Height, (ft, from the ground): 22

Stack Opening, (inches, dia.): 36

Exhaust Flow Rate (scfm): 19,500

Exhaust Temperature (°F): Ambient

Discharge Style: Vertical Obstructed

Authority for Requirement: Iowa DNR Construction Permit 05-A-558-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

**Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**

*(See Appendix B)*

Yes ☒ No ☐

**Facility Maintained Operation & Maintenance Plan Required?**

Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?**

Authority for Requirement: 567 IAC 22.108(3)

Yes ☐ No ☒

## IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22.

### G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 22.105 (2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 22.108 (1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108 (14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 22.108 (9)"b"*

### G2. Permit Expiration

1. Except as provided in 567 IAC 22.104, the expiration of this permit terminates the permittee's right to operate unless a timely and complete application has been submitted for renewal. Any testing required for renewal shall be completed before the application is submitted. *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall present or mail the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Urbandale, Iowa 50322, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to EPA Region VII, Attention: Chief of Air Permits, 901 N. 5th St., Kansas City, KS 66101. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

### G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 22.107 (4)*

### G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period

consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. *567 IAC 22.108 (15)"e"*

#### **G5. Semi-Annual Monitoring Report**

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with *567 IAC 22.107(4)*. The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. *567 IAC 22.108 (5)*

#### **G6. Annual Fee**

1. The permittee is required under subrule *567 IAC 22.106* to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
  - a. Form 1.0 "Facility Identification";
  - b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
  - c. Form 5.0 "Title V annual emissions summary/fee"; and
  - d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
  - a. Form 1.0 "Facility Identification";
  - b. Form 5.0 "Title V annual emissions summary/fee";
  - c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in *567 IAC 22.115(1)"d"*.

### **G7. Inspection of Premises, Records, Equipment, Methods and Discharges**

Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"*

### **G8. Duty to Provide Information**

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e"*

### **G9. General Maintenance and Repair Duties**

The owner or operator of any air emission source or control equipment shall:

1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1)*

### **G10. Recordkeeping Requirements for Compliance Monitoring**

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
  - a. The date, place and time of sampling or measurements
  - b. The date the analyses were performed.
  - c. The company or entity that performed the analyses.
  - d. The analytical techniques or methods used.
  - e. The results of such analyses; and
  - f. The operating conditions as existing at the time of sampling or measurement.
  - g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
  - a. Comply with all terms and conditions of this permit specific to each alternative scenario.

- b. Maintain a log at the permitted facility of the scenario under which it is operating.
- c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

**G11. Evidence used in establishing that a violation has or is occurring.**

Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:
  - a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
  - b. Compliance test methods specified in 567 Chapter 25; or
  - c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.
2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
  - a. Any monitoring or testing methods provided in these rules; or
  - b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

**G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification**

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 22.108(6)*

**G13. Hazardous Release**

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 281-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in *567 IAC 131.2(2)*. *567 IAC Chapter 131-State Only*

**G14. Excess Emissions and Excess Emissions Reporting Requirements**

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to

determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

## 2. Excess Emissions Reporting

a. Oral Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An oral report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1) ) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The oral report may be made in person or by telephone and shall include as a minimum the following:

- i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and expected duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps being taken to remedy the excess emission.
- vi. The steps being taken to limit the excess emission in the interim period.

b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required oral reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. 567 IAC 24.1(1)-567 IAC 24.1(4)

3. Emergency Defense for Excess Emissions. For the purposes of this permit, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed

equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The facility at the time was being properly operated;
- c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
- d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. *567 IAC 22.108(16)*

#### **G15. Permit Deviation Reporting Requirements**

A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 22.108(5)"b"*

#### **G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations**

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)*

#### **G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification**

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:
  - a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
  - b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
  - c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
  - d. The changes are not subject to any requirement under Title IV of the Act.
  - e. The changes comply with all applicable requirements.
  - f. For such a change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:



- i. A brief description of the change within the permitted facility,
- ii. The date on which the change will occur,
- iii. Any change in emission as a result of that change,
- iv. The pollutants emitted subject to the emissions trade
- v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
- vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
- vii. Any permit term or condition no longer applicable as a result of the change.

*567 IAC 22.110(1)*

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC*

*22.110(2)*

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*

4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*

5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

#### **G18. Duty to Modify a Title V Permit**

##### **1. Administrative Amendment.**

a. An administrative permit amendment is a permit revision that is required to do any of the following:

- i. Correct typographical errors
- ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
- iii. Require more frequent monitoring or reporting by the permittee; or
- iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.

b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.

c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

##### **2. Minor Permit Modification.**

a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:

- i. Do not violate any applicable requirements
- ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit.
- iii. Do not require or change a case by case determination of an emission limitation or other standard, or increment analysis.
- iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act.;
- v. Are not modifications under any provision of Title I of the Act; and
- vi. Are not required to be processed as significant modification.

b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:

- i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs.
- ii. The permittee's suggested draft permit
- iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of a minor permit modification procedures and a request that such procedures be used; and
- iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, existing permit term terms and conditions it seeks to modify may subject the facility to enforcement action.

3. Significant Permit Modification. Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, and those requirements that apply to Title V issuance and renewal. 567 IAC 22.111-567 IAC 22.113 The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. 567 IAC 22.105(1)"a"(4)

### **G19. Duty to Obtain Construction Permits**

Unless exempted under 567 IAC 22.1(2), the permittee must not construct, install, reconstruct, or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, conditional permit, or permit pursuant to 567 IAC 22.8, or permits required pursuant to 567 IAC 22.4 and 567 IAC 22.5. Such permits shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source. 567 IAC 22.1(1)

### **G20. Asbestos**

The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when activities involve asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, spraying applications, demolition and renovation operations, training fires and controlled burning of a demolished building. 567 IAC 23.1(3)"a", and 567 IAC 23.2

### **G21. Open Burning**

The permittee is prohibited from conducting open burning, except as may be allowed by 567 IAC 23.2. 567 IAC 23.2 except 23.2(3)"h"; 567 IAC 23.2(3)"h" - *State Only*

### **G22. Acid Rain (Title IV) Emissions Allowances**

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. 567 IAC 22.108(7)

### **G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements**

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

- a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
- b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
- c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
- d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.

2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
- d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
- e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.

f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.

3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.

4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,

5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

#### **G24. Permit Reopenings**

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*

2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.

a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;

b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to June 25, 1993.

c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a"*, *567 IAC 22.108(17)"b"*

3. A permit shall be reopened and revised under any of the following circumstances:

a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to June 25, 1993, provided that the reopening may be stayed pending judicial review of that determination;

b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;

c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source

receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.

d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*

4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

### **G25. Permit Shield**

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:

a. Such applicable requirements are included and are specifically identified in the permit; or

b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.

2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.

3. A permit shield shall not alter or affect the following:

a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;

b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;

d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

### **G26. Severability**

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8)*

### **G27. Property Rights**

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 22.108 (9)"d"*

### **G28. Transferability**

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought to determine transferability of the permit. *567 IAC 22.111 (1)"d"*

### **G29. Disclaimer**

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 22.3(3)"c"*

**G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification**

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with an applicable requirement. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. Unless specifically waived by the department's stack test contact, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of a pretest meeting. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

Stack test notifications, reports and correspondence shall be sent to:

Stack Test Review Coordinator  
Iowa DNR, Air Quality Bureau  
7900 Hickman Road, Suite #1  
Urbandale, IA 50322  
(515) 242-6001

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.

*567 IAC 25.1(7)"a", 567 IAC 25.1(9)*

**G31. Prevention of Air Pollution Emergency Episodes**

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons.

*567 IAC 26.1(1)*

**G32. Contacts List**

The current address and phone number for reports and notifications to the EPA administrator is:

Chief of Air Permits  
EPA Region 7  
Air Permits and Compliance Branch  
901 N. 5<sup>th</sup> Street  
Kansas City, KS 66101  
(913) 551-7020

The current address and phone number for reports and notifications to the department or the Director is:

Chief, Air Quality Bureau  
Iowa Department of Natural Resources  
7900 Hickman Road, Suite #1  
Urbandale, IA 50322  
(515) 242-5100

Reports or notifications to the DNR Field Offices or local programs shall be directed to the supervisor at the appropriate field office or local program. Current addresses and phone numbers are:

**Field Office 1**

909 West Main – Suite 4  
Manchester, IA 52057  
(563) 927-2640

**Field Office 2**

2300-15th St., SW  
Mason City, IA 50401  
(641) 424-4073

**Field Office 3**

1900 N. Grand Ave.  
Spencer, IA 51301  
(712) 262-4177

**Field Office 4**

1401 Sunnyside Lane  
Atlantic, IA 50022  
(712) 243-1934

**Field Office 5**

401 SW 7<sup>th</sup> Street, Suite I  
Des Moines, IA 50309  
(515) 725-0268

**Field Office 6**

1023 West Madison Street  
Washington, IA 52353-1623  
(319) 653-2135

**Polk County Public Works Dept.**

Air Quality Division  
5885 NE 14th St.  
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## **Appendix A: 40 CFR 63 Subpart RRRR--National Emission Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture**

### **Sec. 63.4882 What parts of my plant does this subpart cover?**

- (a) This subpart applies to each new, reconstructed, and existing affected source.
- (b) The affected source is the collection of all of the items listed in paragraphs (b)(1) through (4) of this section that are used for surface coating of metal furniture:
  - (1) All coating operations as defined in Sec. 63.4981;
  - (2) All storage containers and mixing vessels in which coatings, thinners, and cleaning materials are stored or mixed;
  - (3) All manual and automated equipment and containers and all pumps and piping within the affected source used for conveying coatings, thinners, and cleaning materials; and
  - (4) All storage containers, all pumps and piping, and all manual and automated equipment and containers within the affected source used for conveying waste materials generated by a coating operation.
- (c) An affected source is a new affected source if you commenced its construction after April 24, 2002, and the construction is of a completely new metal furniture surface coating facility where previously no metal furniture surface coating facility had existed.
- (d) An affected source is reconstructed if you meet the criteria as defined in Sec. 63.2.
- (e) An affected source is existing if it is not new or reconstructed.

### **Sec. 63.4883 When do I have to comply with this subpart?**

The date by which you must comply with this subpart is called the compliance date. The compliance date for each type of affected source is specified in paragraphs (a) through (c) of this section. The compliance date begins the initial compliance period during which you conduct the initial compliance demonstration described in Sec. Sec. 63.4940, 63.4950, and 63.4960.

- (a) For a new or reconstructed affected source, the compliance date is the applicable date in paragraph (a)(1) or (2) of this section:
  - (1) If the initial startup of your new or reconstructed affected source is before May 23, 2003, the compliance date is May 23, 2003.
  - (2) If the initial startup of your new or reconstructed affected source occurs after May 23, 2003, the compliance date is the date of initial startup of your affected source.
- (b) For an existing affected source, the compliance date is the date 3 years after May 23, 2003.
- (c) For an area source that increases its emissions or its potential to emit such that it becomes a major source of HAP emissions, the compliance date is specified in paragraphs (c)(1) and (2) of this section.
  - (1) For any portion of the source that becomes a new or reconstructed affected source subject to this subpart, the compliance date is the date of initial startup of the affected source or May 23, 2003, whichever is later.
  - (2) For any portion of the source that becomes an existing affected source subject to this subpart, the compliance date is the date 1 year after the area source becomes a major source or 3 years after May 23, 2003, whichever is later.
- (d) You must meet the notification requirements in Sec. 63.4910 according to the dates specified in that section and in subpart A of this part. Some of the notifications must be submitted before the compliance dates described in paragraphs (a) through (c) of this section.



**Sec. 63.4890 What emission limits must I meet?**

(a) For a new or reconstructed affected source, you must emit no organic HAP during each compliance period, determined according to the procedures in Sec. 63.4941.

(c) For an existing affected source, you must limit organic HAP emissions to the atmosphere to no more than 0.10 kg organic HAP per liter (0.83 lb/gal) of coating solids used during each compliance period, determined according to the procedures in Sec. 63.4941, Sec. 63.4951, or Sec. 63.4961.

**Sec. 63.4891 What are my options for demonstrating compliance with the emission limits?**

You must include all coatings, thinners, and cleaning materials used in the affected source when determining whether the organic HAP emission rate is equal to or less than the applicable emission limit in Sec. 63.4890. To make this determination, you must use at least one of the three compliance options listed in paragraphs (a) through (c) of this section. You may apply any of the compliance options to an individual coating operation or to multiple coating operations as a group or to the entire affected source. You may use different compliance options for different coating operations or at different times on the same coating operation. However, you may not use different compliance options at the same time on the same coating operation. If you switch between compliance options for any coating operation or group of coating operations, you must document this switch as required by Sec. 63.4930(c), and you must report it in the next semiannual (6-month period) compliance report required in Sec. 63.4920.

(a) Compliant material option. Demonstrate that the organic HAP content of each coating used in the coating operation or group of coating operations is less than or equal to the applicable emission rate limit in Sec. 63.4890 and that each thinner and each cleaning material used contains no organic HAP. You must meet all the requirements of Sec. Sec. 63.4940, 63.4941, and 63.4942 to demonstrate compliance with the emission limit using this option.

**Sec. 63.4892 What operating limits must I meet?**

(a) For any coating operation or group of coating operations for which you use the compliant material option or the emission rate without add-on controls option to demonstrate compliance, you are not required to meet any operating limits.

**Sec. 63.4893 What work practice standards must I meet?**

(a) For any coating operation or group of coating operations for which you use the compliant material option or the emission rate without add-on controls option to demonstrate compliance, you are not required to meet any work practice standards.

**Sec. 63.4900 What are my general requirements for complying with this subpart?**

(a) The affected source must be in compliance at all times with the emission limitations specified in Sec. 63.4890.

(b) You must always operate and maintain your affected source, including all air pollution control and monitoring equipment you use for purposes of complying with this subpart, according to the provisions in Sec. 63.6(e)(1)(i).

**Sec. 63.4901 What parts of the General Provisions apply to me?**

Table 2 (Appendix A) to this subpart shows which parts of the General Provisions in Sec. Sec. 63.1 through 63.15 apply to you.

**Sec. 63.4910 What notifications must I submit?**

(a) General. You must submit the notifications in Sec. Sec. 63.7(b) and (c), 63.8(f)(4), and 63.9(b) through (e), (h), and (j) that apply to you by the dates specified in those sections, except as provided in paragraphs (b) and (c) of this section.

(b) Initial Notification. You must submit the Initial Notification required by Sec. 63.9(b) for a new or reconstructed affected source no later than 120 days after initial startup or 120 days after May 23, 2003, whichever is later. For an existing affected source, you must submit the Initial Notification no later than 1 year after May 23, 2003. (Received May 23, 2006)

(c) Notification of Compliance Status. You must submit the Notification of Compliance Status required by Sec. 63.9(h) no later than 30 calendar days following the end of the initial compliance period described in Sec. 63.4940, Sec. 63.4950, or Sec. 63.4960 that applies to your affected source. The Notification of Compliance Status must contain the information specified in paragraphs (c)(1) through (9) of this section and the applicable information specified in Sec. 63.9(h).

(1) Company name and address.

(2) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the report. Such certifications must also comply with the requirements of 40 CFR 70.5(d) or 40 CFR 71.5(d).

(3) Date of the report and beginning and ending dates of the reporting period. The reporting period is the initial compliance period described in Sec. 63.4940, Sec. 63.4950, or Sec. 63.4960 that applies to your affected source.

(4) Identification of the compliance option or options specified in Sec. 63.4891 that you used on each coating operation in the affected source during the initial compliance period and that you will use for demonstrating continuous compliance.

(5) Statement of whether or not the affected source achieved the emission limitations for the initial compliance period.

(6) If you had a deviation, include the information in paragraphs (c)(6)(i) and (ii) of this section.

(i) A description and statement of the cause of the deviation.

(ii) If you failed to meet the applicable emission limit in Sec. 63.4890, include all the calculations you used to determine compliance. You do not need to submit information provided by material suppliers or manufacturers or test reports.

(7) For each of the data items listed in paragraphs (c)(7)(i) through (iv) of this section that is required by the compliance option(s) you used to demonstrate compliance with the emission limit, include an example of how you determined the value, including calculations and supporting data. Supporting data can include a copy of the information provided by the supplier or manufacturer of the example coating or material or a summary of the results of testing conducted according to Sec. 63.4941(a), (b), or (c). You do not need to submit copies of any test reports.

(i) Mass fraction of organic HAP for one coating, for one thinner, and for one cleaning material.

(ii) Volume fraction of coating solids for one coating.

(iii) Density for one coating, one thinner, and one cleaning material, except that if you use the compliant material option, only the example coating density is required.

(iv) The amount of waste materials and the mass of organic HAP contained in the waste materials for which you are claiming an allowance in Equation 1 of Sec. 63.4951.

(8) The calculation of the organic HAP emission rate for the compliance option(s) you used, as specified in paragraphs (c)(8)(i) through (iii) of this section.

(i) For the compliant materials option, provide an example calculation of the organic HAP content for one coating, using Equation 2 of Sec. 63.4941.

(ii) For the emission rate without add-on controls option, provide the information specified in paragraphs (c)(8)(ii)(A) through (C) of this section.

(A) The calculation of the total mass of organic HAP emissions during the initial compliance period, using Equation 1 of Sec. 63.4951.

(B) The calculation of the total volume of coating solids used during the initial compliance period, using Equation 2 of Sec. 63.4951.

(C) The calculation of the organic HAP emission rate for the initial compliance period, using Equation 3 of Sec. 63.4951.

(iii) For the emission rate with add-on controls option, provide the information specified in paragraphs (c)(8)(iii)(A) through (D) of this section.

(A) The calculation of the total mass of organic HAP emissions for the coatings, thinners, and cleaning materials used during the initial compliance period, using Equation 1 of Sec. 63.4951.

(B) The calculation of the total volume of coating solids used during the initial compliance period, using Equation 2 of Sec. 63.4951.

(C) The calculation of the mass of organic HAP emission reduction during the initial compliance period by emission capture systems and add-on control devices, using Equation 1 of Sec. 63.4961, and the calculation of the mass of organic HAP emission reduction for the coating operations controlled by solvent recovery systems during each compliance period, using Equation 3 of Sec. 63.4961 as applicable.

(D) The calculation of the organic HAP emission rate for the initial compliance period, using Equation 4 of Sec. 63.4961.

(9) For the emission rate with add-on controls option, you must include the information specified in paragraphs (c)(9)(i) through (v) of this section. However, the requirements in paragraphs (c)(9)(i) through (iii) of this section do not apply to solvent recovery systems for which you conduct liquid-liquid material balances according to Sec. 63.4961(j).

(i) For each emission capture system, a summary of the data and copies of the calculations supporting the determination that the emission capture system is a permanent total enclosure (PTE) or a measurement of the emission capture system efficiency. Include a description of the protocol followed for measuring capture efficiency, summaries of any capture efficiency tests conducted, and any calculations supporting the capture efficiency determination. If you use the data quality objective (DQO) or lower confidence limit (LCL) approach, you must also include the statistical calculations to show you meet the DQO or LCL criteria in appendix A to subpart KK of this part. You do not need to submit complete test reports.

(ii) A summary of the results of each add-on control device performance test. You do not need to submit complete test reports.

(iii) A list of each emission capture system's and add-on control device's operating limits and a summary of the data used to calculate those limits.

(iv) A statement of whether or not you developed and implemented the work practice plan required by Sec. 63.4893.

(v) A statement of whether or not you developed and implemented the SSMP required by Sec. 63.4900.

#### **Sec. 63.4920 What reports must I submit?**

(a) Semiannual compliance reports. You must submit semiannual compliance reports for each affected source according to the requirements of paragraphs (a)(1) through (7) of this section. The semiannual compliance reporting requirements may be satisfied by reports required under other parts of the Clean Air Act (CAA), such as those detailed in paragraph (a)(2) of this section.

(1) Dates. Unless the Administrator has approved a different schedule for submission of reports under Sec. 63.10(a), you must prepare and submit each semiannual compliance report according to the dates specified in paragraphs (a)(1)(i) through (iv) of this section.

(i) The first semiannual compliance report must cover the first semiannual reporting period which begins the day after the end of the initial compliance period described in Sec. 63.4940, Sec. 63.4950, or Sec. 63.4960 that applies to your affected source and ends on June 30 or December 31, whichever occurs first following the end of the initial compliance period.

(ii) Each subsequent semiannual compliance report must cover the subsequent semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31.

(iii) Each semiannual compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(iv) For each affected source that is subject to permitting regulations pursuant to 40 CFR part 70 or 40 CFR part 71, and if the permitting authority has established dates for submitting 6-month monitoring reports pursuant to 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR

71.6(a)(3)(iii)(A), you may submit the first and subsequent semiannual compliance reports according to the dates the permitting authority has established for the 40 CFR part 70 or 40 CFR part 71 6-month monitoring reports instead of according to the dates specified in paragraph (a)(1)(iii) of this section. However, under no circumstances shall the semiannual compliance report be submitted more than 30 days after the end of the semiannual reporting period established in paragraphs (a)(1)(i) and (ii) of this section.

(2) Inclusion with title V report. Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 40 CFR part 71 must report all deviations as defined in this subpart in the 6-month monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a semiannual compliance report pursuant to this section along with, or as part of, the 6-month monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the semiannual compliance report includes all information required by the part 70 or part 71 6-month monitoring report concerning deviations from the requirements of this subpart as defined in Sec. 63.4981, the submission of the semiannual compliance report shall be deemed to satisfy any obligation to report the same deviation information in the part 70 or part 71 6-month monitoring report. However, in such situations, the 6-month monitoring report must cross-reference the semiannual compliance report, and submission of a semiannual compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permitting authority.

(3) General requirements. The semiannual compliance report must contain the information specified in paragraphs (a)(3)(i) through (v) of this section, and the information specified in paragraphs (a)(4) through (7) and (c)(1) of this section that is applicable to your affected source.

(i) Company name and address.

(ii) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the report. Such certifications must also comply with the requirements of 40 CFR 70.5(d) or 40 CFR 71.5(d)

(iii) Date of report and beginning and ending dates of the reporting period. The reporting period is the 6-month period ending on June 30 or December 31.

(iv) Identification of the compliance option or options specified in Sec. 63.4891 that you used on each coating operation during the reporting period. If you switched between compliance options during the reporting period, you must report the beginning and ending dates you used each option.

(v) If you used the emission rate without add-on controls or the emission rate with add-on controls compliance option (Sec. 63.4891(b) or (c)), the calculation results for each organic HAP emission rate for each compliance period ending in the 6-month reporting period.

(4) No deviations. If there were no deviations from the emission limits, operating limits, and work practice standards in Sec. Sec. 63.4890, 63.4892, and 63.4893, respectively, that apply to you, the semiannual compliance report must include an affirmative statement that there were no deviations from the emission limitations, operating limits, or work practice standards in Sec. Sec. 63.4890, 63.4892, and 63.4893 during the reporting period. If there were no deviations from the emission limitations in Sec. 63.4890, the semiannual compliance report must include the affirmative statement that is described in either Sec. 63.4942(c), Sec. 63.4952(c), or Sec. 63.4962(f), as applicable. If you used the emission rate with add-on controls option and there were no periods during which the continuous parameter monitoring systems (CPMS) were out-of-control as specified in Sec. 63.8(c)(7), the semiannual compliance report must include a statement that there were no periods during which the CPMS were out-of-control during the reporting period as specified in Sec. 63.8(c)(7).

(5) Deviations: compliant material option. If you used the compliant material option, and there was a deviation from the applicable emission limit in Sec. 63.4890, the semiannual compliance report must contain the information in paragraphs (a)(5)(i) through (iv) of this section.

(i) Identification of each coating used that deviated from the emission limit, and of each thinner and cleaning material used that contained organic HAP, and the dates and time periods each was used.

(ii) The calculation of the organic HAP content for each coating identified in paragraph (a)(5)(i) of this section, using Equation 2 of Sec. 63.4941. You do not need to submit

background data supporting this calculation, for example, information provided by materials suppliers or manufacturers, or test reports.

(iii) The determination of mass fraction of organic HAP for each coating, thinner, and cleaning material identified in paragraph (a)(5)(i) of this section. You do not need to submit background data supporting this calculation, for example, information provided by materials suppliers or manufacturers, or test reports.

(iv) A statement of the cause of each deviation.

(6) Deviations: emission rate without add-on controls option. If you used the emission rate without add-on controls option, and there was a deviation from any applicable emission limit in Sec. 63.4890, the semiannual compliance report must contain the information in paragraphs (a)(6)(i) through (v) of this section. You do not need to submit background data supporting these calculations, for example, information provided by materials suppliers or manufacturers, or test reports.

(i) The beginning and ending dates of each compliance period during which the organic HAP emission rate exceeded the applicable emission limit in Sec. 63.4890.

(ii) The calculation of the total mass of organic HAP emissions for each month, using Equations 1 of Sec. 63.4951.

(iii) The calculation of the total volume of coating solids used each month, using Equation 2 of Sec. 63.4951.

(iv) The calculation of the organic HAP emission rate for each month, using Equation 3 of Sec. 63.4951.

(v) A statement of the cause of each deviation.

(7) Deviations: emission rate with add-on controls option. If you used the emission rate with add-on controls option, and there was a deviation from any applicable emission limitation (including any periods when emissions bypassed the add-on control device and were diverted to the atmosphere), the semiannual compliance report must contain the information in paragraphs (a)(7)(i) through (xvii) of this section. This includes periods of startup, shutdown, and malfunction during which deviations occurred. You do not need to submit background data supporting these calculations, for example, information provided by materials suppliers or manufacturers, or test reports.

(i) The beginning and ending dates of each compliance period during which the organic HAP emission rate exceeded the applicable emission limit in Sec. 63.4890.

(ii) The calculation of the total mass of organic HAP emissions for the coatings, thinners, and cleaning materials used during each month, using Equation 1 of Sec. 63.4951 and, if applicable, the calculation used to determine the total mass of organic HAP in waste materials sent or designated for shipment to a hazardous waste treatment, storage, and disposal facility (TSDF) for treatment or disposal during each compliance period, according to Sec. 63.4951(e)(4).

(iii) The calculation of the total volume of coating solids used, using Equation 2 of Sec. 63.4951.

(iv) The calculation of the mass of organic HAP emission reduction each month by emission capture systems and add-on control devices, using Equation 1 of Sec. 63.4961, and Equation 3 of Sec. 63.4961 for the calculation of the mass of organic HAP emission reduction for the coating operation controlled by solvent recovery systems each compliance period, as applicable.

(v) The calculation of the organic HAP emission rate for each compliance period, using Equation 4 of Sec. 63.4961.

(vi) The date and time that each malfunction started and stopped.

(vii) A brief description of the CPMS.

(viii) The date of the latest CPMS certification or audit.

(ix) The date and time that each CPMS was inoperative, except for zero (low-level) and high-level checks.

(x) The date, time, and duration that each CPMS was out-of-control, including the information in Sec. 63.8(c)(8).

(xi) The date and time period of each deviation from an operating limit in Table 1 to this subpart; date and time period of any bypass of the add-on control device; and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

(xii) A summary of the total duration of each deviation from an operating limit in Table 1 to this subpart and each bypass of the add-on control device during the semiannual reporting period and the total duration as a percent of the total affected source operating time during that semiannual reporting period.

(xiii) A breakdown of the total duration of the deviations from the operating limits in Table 1 to this subpart and bypasses of the add-on control device during the semiannual reporting period into those that were due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.

(xiv) A summary of the total duration of CPMS downtime during the semiannual reporting period and the total duration of CPMS downtime as a percent of the total affected source operating time during that semiannual reporting period.

(xv) A description of any changes in the CPMS, coating operation, emission capture system, or add-on control device since the last semiannual reporting period.

(xvi) For each deviation from the work practice standards, a description of the deviation; the date and time period of the deviation; and the actions you took to correct the deviation.

(xvii) A statement of the cause of each deviation.

#### **Sec. 63.4930 What records must I keep?**

You must collect and keep records of the data and information specified in this section. Failure to collect and keep these records is a deviation from the applicable standard.

(a) A copy of each notification and report that you submitted to comply with this subpart, and the documentation supporting each notification and report.

(b) A current copy of information provided by materials suppliers or manufacturers. This would include records pertaining to the design and manufacturer's specifications for the life of the add-on control equipment. It would also include information such as manufacturer's formulation data for the materials used, or test data used to determine the mass fraction of organic HAP and density for each coating, thinner, and cleaning material and the volume fraction of coating solids for each coating. If you conducted testing to determine mass fraction of organic HAP, density, or volume fraction of coating solids, you must keep a copy of the complete test report. If you use information provided to you by the manufacturer or supplier of the material that was based on testing, you must keep the summary sheet of results provided to you by the manufacturer or supplier. You are not required to obtain the test report or other supporting documentation from the manufacturer or supplier.

(c) For each compliance period, the records specified in paragraphs (c)(1) through (4) of this section.

(1) A record of the coating operations at which you used each compliance option and the time periods (beginning and ending dates and times) you used each option.

(2) For the compliant material option, a record of the calculation of the organic HAP content for each coating, using Equation 2 of Sec. 63.4941.

(d) A record of the name and volume of each coating, thinner, and cleaning material used during each compliance period.

(e) A record of the mass fraction of organic HAP for each coating, thinner, and cleaning material used during each compliance period.

(f) A record of the volume fraction of coating solids for each coating used during each compliance period.

(g) If a determination of density is required by the compliance option(s) you used to demonstrate compliance with the emission limit, a record of the density for each coating used during each compliance period; and, if you use either the emission rate without add-on controls or the emission rate with add-on controls compliance option, the density for each thinner and cleaning material used during each compliance period.

(h) If you use an allowance in Equation 1 of Sec. 63.4951 for organic HAP contained in waste materials sent to or designated for shipment to a TSDF according to Sec. 63.4951(e)(4), you must keep records of the information specified in paragraphs (h)(1) through (3) of this section.

(1) The name and address of each TSDF to which you sent waste materials for which you use an allowance in Equation 1 of Sec. 63.4951, a statement of which subparts under 40 CFR parts 262, 264, 265, and 266 apply to the facility, and the date of each shipment.

(2) Identification of the coating operations producing waste materials included in each shipment and the month or months in which you used the allowance for these materials in Equation 1 of Sec. 63.4951.

(3) The methodology used in accordance with Sec. 63.4951(e)(4) to determine the total amount of waste materials sent to or the amount collected, stored, and designated for transport to a TSDF each month; and the methodology to determine the mass of organic HAP contained in these waste materials. This must include the sources for all data used in the determination, methods used to generate the data, frequency of testing or monitoring, and supporting calculations and documentation, including the waste manifest for each shipment.

(j) You must keep records of the date, time, and duration of each deviation.

#### **Sec. 63.4931 In what form and for how long must I keep my records?**

(a) Your records must be in a form suitable and readily available for expeditious review, according to Sec. 63.10(b)(1). Where appropriate, the records may be maintained as electronic spreadsheets or as a database.

(b) As specified in Sec. 63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record on-site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to Sec. 63.10(b)(1). You may keep these records off-site for the remaining 3 years. You must keep records on-site pertaining to the design and manufacturer's specifications for operation of add-on control equipment for the life of the equipment.

#### **Sec. 63.4940 By what date must I conduct the initial compliance demonstration?**

You must complete the initial compliance demonstration for the initial compliance period according to the requirements in Sec. 63.4941. The initial compliance period begins on the applicable compliance date specified in Sec. 63.4883 and ends on the last day of the first full month following the compliance date. The initial compliance demonstration includes the calculations according to Sec. 63.4941 and supporting documentation showing that, during the initial compliance period, you used no coating with an organic HAP content that exceeded the applicable emission limit in Sec. 63.4890, and you used no thinners or cleaning materials that contained organic HAP.

#### **Sec. 63.4941 How do I demonstrate initial compliance with the emission limitations?**

You may use the compliant material option for any individual coating operation, for any group of coating operations in the affected source, or for all the coating operations in the affected source to demonstrate compliance with an organic HAP emission limit. You must use either the emission rate without add-on controls option or the emission rate with add-on controls option for any coating operation in the affected source for which you do not use this option. To demonstrate initial compliance using the compliant material option, during the compliance period the coating operation or group of coating operations must use no coating with an organic HAP content that exceeds the applicable emission limit in Sec. 63.4890 and must use no thinner or cleaning material that contains organic HAP as determined according to this section. Any coating operation for which you use the compliant material option is not required to comply with the operating limits or work practice standards required in Sec. Sec. 63.4892 and 63.4893, respectively. To demonstrate initial compliance with the emission limitations using the compliant material option, you must meet all the requirements of this section for the coating operation or group of coating operations using this option. Use the procedures in this section for each coating, thinner, and cleaning material in the condition it is in when it is received from its manufacturer or supplier and prior to any alteration. You do not need to redetermine the organic HAP content of cleaning materials that are

reclaimed and reused onsite provided these materials in their condition as received were demonstrated to comply with the compliant material option.

(a) Determine the mass fraction of organic HAP for each material used. You must determine the mass fraction of organic HAP for each coating, thinner, and cleaning material used during the compliance period by using one of the options in paragraphs (a)(1) through (5) of this section.

(1) Method 311 (appendix A to 40 CFR part 63). You may use Method 311 for determining the mass fraction of organic HAP. Use the procedures specified in paragraphs (a)(1)(i) and (ii) of this section when performing a Method 311 test.

(i) Count each organic HAP that is measured to be present at 0.1 percent by mass or more for Occupational Safety and Health Administration (OSHA)-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other organic HAP compounds. For example, if toluene (not an OSHA carcinogen) is measured to be 0.5 percent of the material by mass, you do not have to count it. Express the mass fraction of each organic HAP you count as a value truncated to four places after the decimal point (for example, 0.3791).

(ii) Calculate the total mass fraction of organic HAP in the test material by adding up the individual organic HAP mass fractions and truncating the result to three places after the decimal point (for example, 0.763).

(2) Method 24 (appendix A to 40 CFR part 60). For coatings, you may use Method 24 to determine the mass fraction of nonaqueous volatile matter and use that value as a substitute for mass fraction of organic HAP.

(3) Alternative method. You may use an alternative test method for determining the mass fraction of organic HAP once the Administrator has approved it. You must follow the procedure in Sec. 63.7(f) to submit an alternative test method for approval.

(4) Information from the supplier or manufacturer of the material. You may rely on information other than that generated by the test methods specified in paragraphs (a)(1) through (3) of this section, such as manufacturer's formulation data, if it represents each organic HAP that is present at 0.1 percent by mass or more for OSHA-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other organic HAP compounds. For example, if toluene (not an OSHA carcinogen) is 0.5 percent of the material by mass, you do not have to count it. If there is a disagreement between such information and results of a test conducted according to paragraphs (a)(1) through (3) of this section, then the test method results will take precedence.

(5) Solvent blends. Solvent blends may be listed as single components for some materials in data provided by manufacturers or suppliers. Solvent blends may contain organic HAP which must be counted toward the total organic HAP mass fraction of the materials. When test data and manufacturer's data for solvent blends are not available, you may use the default values for the mass fraction of organic HAP in these solvent blends listed in Table 3 or 4 to this subpart. If you use the tables, you must use the values in Table 3 for all solvent blends that match Table 3 entries, and you may only use Table 4 if the solvent blends in the materials you use do not match any of the solvent blends in Table 3, and you only know whether the blend is aliphatic or aromatic. However, if the results of a Method 311 test indicate higher values than those listed on Table 3 or 4 of this subpart, the Method 311 results will take precedence.

(b) Determine the volume fraction of coating solids for each coating. You must determine the volume fraction of coating solids (liters of coating solids per liter of coating) for each coating used during the compliance period by a test or by information provided by the supplier or the manufacturer of the material, as specified in paragraphs (b)(1), (2), and (3) of this section. If test results obtained according to paragraph (b)(1) of this section do not agree with the information obtained under paragraph (b)(2) or (3) of this section, the test results will take precedence.

(1) Test results. You may use ASTM Method D2697-86 (Reapproved 1998), "Standard Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings" (incorporated by reference, see Sec. 63.14), or D6093-97, "Standard Test Method for Percent Volume Nonvolatile Matter in Clear or Pigmented Coatings Using a Helium Gas Pycnometer" (incorporated by reference, see Sec. 63.14), to determine the volume fraction of coating solids for each coating. Divide the nonvolatile volume percent obtained with the methods by 100 to calculate volume fraction of coating solids. Alternatively, you may



use another test method once you obtain approval from the Administrator according to the requirements of Sec. 63.7(f).

(2) Information from the supplier or manufacturer of the material. You may obtain the volume fraction of coating solids for each coating from the supplier or manufacturer.

(3) Calculation of volume fraction of coating solids. If the volume fraction of coating solids cannot be determined using the options in paragraphs (b)(1) and (2) of this section, you must determine it using Equation 1 of this section:

$$V_s = 1 - \frac{M_{\text{volatiles}}}{D_{\text{avg}}} \quad (\text{Eq. 1})$$

Where:

$V_s$  = Volume fraction of coating solids, liters coating solids per liter coating.

$M_{\text{volatiles}}$  = Total volatile matter content of the coating, including HAP, volatile organic compounds (VOC), water, and exempt compounds, determined according to Method 24 in appendix A of 40 CFR part 60, grams volatile matter per liter coating.

$D_{\text{avg}}$  = Average density of volatile matter in the coating, grams volatile matter per liter volatile matter, determined from test results using ASTM Method D1475-90, information from the supplier or manufacturer of the material, or reference sources providing density or specific gravity data for pure materials. If there is disagreement between ASTM Method D1475-90 test results and other information sources, the test results will take precedence.

(c) Determine the density of each coating. You must determine the density of each coating used during the compliance period from test results using ASTM Method D1475-90 or information from the supplier or manufacturer of the material. If there is disagreement between ASTM Method D1475-90 test results and the supplier's or manufacturer's information, the test results will take precedence.

(d) Calculate the organic HAP content of each coating. Calculate the organic HAP content, kg organic HAP per liter coating solids, of each coating used during the compliance period, using Equation 2 of this section, except that if the mass fraction of organic HAP in the coating equals zero, then the organic HAP content also equals zero and you are not required to use Equation 2 to calculate the organic HAP content.

$$H_c = \frac{(D_c)(W_c)}{V_s} \quad (\text{Eq. 2})$$

Where:

$H_c$  = Organic HAP content of the coating, kg organic HAP per liter coating solids.

$D_c$  = Density of coating, kg coating per liter coating, determined according to paragraph (c) of this section.

$W_c$  = Mass fraction of organic HAP in the coating, kg organic HAP per kg coating, determined according to paragraph (a) of this section.

$V_s$  = Volume fraction of coating solids, liter coating solids per liter coating, determined according to paragraph (b) of this section.

(e) Compliance demonstration. The calculated organic HAP content for each coating used during the initial compliance period must be less than or equal to the applicable emission limit in Sec. 63.4890 and each thinner and cleaning material used during the initial compliance period must contain no organic HAP, determined according to paragraph (a) of this section. You must keep all records required by Sec. 63.4930 and 63.4931. As part of the Notification of Compliance Status required in Sec. 63.4910(c) and the semiannual compliance reports required in Sec. 63.4920, you must identify each coating operation and group of coating operations for which you used the compliant material option. If there were no deviations from the emission limit, include a statement that each was in compliance with the emission limitations during the initial compliance period because it used no coatings for which the organic HAP

content exceeded the applicable emission limit in Sec. 63.4890, and it used no thinners or cleaning materials that contained organic HAP.

**Sec. 63.4942 How do I demonstrate continuous compliance with the emission limitations?**

(a) Following the initial compliance period, you must complete a compliance demonstration according to the requirements in Sec. 63.4941(e) for each subsequent compliance period. Each month following the initial compliance period described in Sec. 63.4940 is a compliance period.

(b) If you choose to comply with the emission limitations by using the compliant material option, the use of any coating, thinner, or cleaning material that does not meet the criteria specified in paragraph (a) of this section is a deviation from the emission limitations that must be reported as specified in Sec. Sec. 63.4910(c)(6) and 63.4920(a)(5).

(c) As part of each semiannual compliance report required by Sec. 63.4920, you must identify the coating operation or group of coating operations for which you used the compliant material option. If there were no deviations from the emission limits in Sec. 63.4890, submit an affirmative statement that the coating operation or group of coating operations was in compliance with the emission limitations during the reporting period because you used no coating for which the organic HAP content exceeded the applicable emission limit in Sec. 63.4890, and you used no thinner or cleaning material that contained organic HAP.

(d) You must maintain records as specified in Sec. Sec. 63.4930 and 63.4931.

**TABLE 2 TO SUBPART RRRR OF PART 63.—APPLICABILITY OF GENERAL PROVISIONS TO SUBPART RRRR** [You must comply with the applicable General Provisions requirements according to the following table:]

<b>Citation</b>	<b>Subject</b>	<b>Applicable to subpart</b>	<b>Explanation</b>
§ 63.1(a)(1)–(14)	General Applicability	Yes.	
§ 63.1(b)(1)–(3)	Initial Applicability Determination	Yes	Applicability to subpart RRRR is also specified in § 63.4881.
§ 63.1(c)(1)	Applicability After Standard Established	Yes.	
§ 63.1(c)(4)–(5)	Extensions and Notifications	Yes.	
§ 63.1(e)	Applicability of Permit Program Before Relevant Standard is Set.	Yes.	
§ 63.2	Definitions	Yes	Additional definitions are specified in § 63.4981.
§ 63.3(a)–(c)	Units and Abbreviations .	Yes.	
§ 63.4(a)(1)–(5)	Prohibited Activities	Yes.	
§ 63.4(b)–(c)	Circumvention/Severability	Yes.	
§ 63.5(a)	Construction/Reconstruction	Yes.	
§ 63.5(b)(1)–(6)	Requirements for Existing, Newly Constructed, and Reconstructed Sources.	Yes.	
§ 63.5(d)	Application for Approval of Construction/Reconstruction.	Yes.	
§ 63.5(e)	Approval of Construction/Reconstruction	Yes.	
§ 63.5(f)	Approval of Construction/Reconstruction Based on Prior State Review.	Yes.	
§ 63.6(a)	Compliance With Standards and Maintenance Requirements—Applicability.	Yes.	
§ 63.6(b)(1)–(7)	Compliance Dates for New and Reconstructed Sources.	Yes	Section 63.4883 specifies the compliance dates.
§ 63.6(c)(1)–(5)	Compliance Dates for Existing Sources	Yes	Section 63.4883 specifies the compliance dates.
§ 63.6(e)(1)–(2)	Operation and Maintenance	Yes.	
§ 63.6(f)(2)–(3)	Methods for Determining Compliance	Yes.	
§ 63.6(g)(1)–(3)	Use of Alternative Standards	Yes.	
§ 63.6(i)(1)–(16)	Extension of Compliance	Yes.	
§ 63.6(j)	Presidential Compliance Exemption	Yes.	
§ 63.7(a)(3)	Performance Tests Required by the Administrator.	Yes.	
§ 63.8(b)	Conduct of Monitoring	Yes.	
§ 63.8(c)(7)	COS Out-of-Control Periods	Yes.	
§ 63.8(f)(1)–(5)	Use of an Alternative Monitoring Method	Yes.	
§ 63.9(a)–(d)	Notification Requirements	Yes.	
63.9(h)	Notification of Compliance Status	Yes	Section 63.4910 specifies the dates for submitting the notification of compliance status.
§ 63.9(i)	Adjustment of Submittal Deadlines	Yes.	
§ 63.9(j)	Change in Previous Information	Yes.	
§ 63.10(a)	Recordkeeping/Reporting—Applicability and General Information.	Yes.	
§ 63.10(b)(1)	General Recordkeeping Requirements	Yes	Additional requirements are specified in §§ 63.4930 and 63.4931.
§ 63.10(b)(2)(vi)–(xi)		Yes.	

§ 63.10(b)(2)(xii)	Records	Yes.	
§ 63.10(b)(2)(xiv)		Yes.	
§ 63.10(b)(3)	Recordkeeping Requirements for Applicability Determinations.	Yes.	
§ 63.10(c)(1)–(6)	Additional Recordkeeping Requirements for Sources with CMS.	Yes.	
§ 63.10(c)(9)–(15)		Yes.	
§ 63.10(d)(1)	General Reporting Requirements	Yes	Additional requirements are specified in § 63.4920.
§ 63.10(d)(2)	Report of Performance Test Results	Yes	Additional requirements are specified in § 63.4920(b).
§ 63.10(d)(4)	Progress Reports for Sources With Compliance Extensions.	Yes.	
§ 63.10(f)	Recordkeeping/Reporting Waiver	Yes.	
§ 63.12	State Authority and Delegations	Yes	
§ 63.13	Addresses	Yes.	
§ 63.14	Incorporation by Reference	Yes.	
§ 63.15	Availability of Information/Confidentiality	Yes.	

**Table 3 to Subpart RRRR of Part 63.** Default Organic HAP Mass Fraction for Solvents and Solvent Blends

You may use the mass fraction values in the following table for solvent blends for which you do not have test data or manufacturer's formulation data:

Solvent/Solvent blend	CAS. No.	Average Organic HAP Mass Fraction	Typical Organic HAP, Percent by Mass
1. Toluene	108-88-3	1.0	Toluene
2. Xylene(s)	1330-20-7	1.0	Xylenes, ethylbenzene
3. Hexane	110-54-3	0.5	n-hexane
4. n-Hexane	110-54-3	1.0	n-hexane
5. Ethylbenzene	100-41-4	1.0	Ethylbenzene
6. Aliphatic 140		0	None
7. Aromatic 100		0.02	1% xylene, 1% cumene
8. Aromatic 150		0.09	Naphthalene
9. Aromatic naphtha	64742-95-6	0.02	1% xylene, 1% cumene
10. Aromatic solvent	64742-94-5	0.1	Naphthalene
11. Exempt mineral spirits	8032-32-4	0	None
	8032-32-4	0	None
12. Lignoines (VM & P)	64742-89-6	0.15	Toluene
13. Lactol spirits	64742-82-1	0	None
14. Low aromatic white spirit	64742-88-7	0.01	Xylenes
	64742-48-9	0	None
15. Mineral spirits	64742-47-8	0.001	Toluene
16. Hydrotreated naphtha	8052-41-3	0.01	Xylenes
17. Hydrotreated light distillate	64742-95-6	0.05	Xylenes
	8052-49-3	0.01	0.5% xylenes, 0.5% ethyl
18. Stoddard solvent	64742-89-8	0.06	benzene
19. Super high- flash naphtha	68477-31-6	0.08	3% toluene, 3% xylene
20. Varsol® solvent			4% naphthalene, 4% biphenyl
21. VM & P naphtha			
22. Petroleum distillate mixture			

**Table 4 to Subpart RRRR of Part 63.** Default Organic HAP Mass Fraction for Petroleum Solvent Groups<sup>a</sup>

You may use the mass fraction values in the following table for solvent blends for which you do not have test data or manufacturer's formulation data:

<b>Solvent Type</b>	<b>Average Organic HAP Mass Fraction</b>	<b>Typical Organic HAP, Percent by Mass</b>
Aliphatic <sup>b</sup>	0.03	1% Xylene, 1% Toluene, and 1% Ethylbenzene
Aromatic <sup>c</sup>	0.06	4% Xylene, 1% Toluene, and 1% Ethylbenzene

<sup>a</sup> Use this table only if the solvent blend does not match any of the solvent blends in Table 3 to this subpart and you only know whether the blend is aliphatic or aromatic.

<sup>b</sup> e.g., Mineral Spirits 135, Mineral Spirits 150 EC, Naphtha, Mixed Hydrocarbon, Aliphatic Hydrocarbon, Aliphatic Naphtha, Naphthol Spirits, Petroleum Spirits, Petroleum Oil, Petroleum Naphtha, Solvent Naphtha, Solvent Blend.

<sup>c</sup> e.g., Medium-flash Naphtha, High-flash Naphtha, Aromatic Naphtha, Light Aromatic Naphtha, Light Aromatic Hydrocarbons, Aromatic Hydrocarbons, Light Aromatic Solvent.

## **Appendix B: Coating Booth Agency O&M Plan**

### **Introduction**

Environmental compliance is a top priority at Modernfold, Inc. To assure compliance with environmental permits and regulations a preventive maintenance program is in place to effectively maintain control equipment on all emission points. The facility uses “no visible emissions” as an action level for taking corrective measures. Based on this action level the following procedures have been developed.

### **Monitoring Guidelines**

The facility makes a commitment to take timely corrective action during periods of excursion where the indicators are out of range. A corrective action may include an investigation of the reason for the excursion, evaluation of the situation and necessary follow-up action to return operation within the indicator range. An excursion is determined by the averaged discrete data point over a period of time. An excursion does not necessarily indicate a violation of an applicable requirement. If the corrective action measures fail to return the indicators to the appropriate range, the facility will report the exceedance to the department and conduct source testing within 90 days of the exceedance to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for monitoring and the new ranges must be incorporated in the operating permit. If the test demonstrates noncompliance with emission limits, then the facility, within 60 days, proposes a schedule to implement corrective action to bring the source into compliance and demonstrate compliance.

### **General**

Periodic Monitoring is not required during periods of time greater than one day in which the source does not operate.

### **Inspections/Preventive Maintenance – Filter Equipment**

The following preventive maintenance schedule will be followed for all filter controlled equipment. A written record will be maintained of the observations and any action resulting from the inspection. All records will be maintained in the office. A copy of maintenance documents used for inspections can be seen in the appendix.

#### Weekly

1. Inspect the paint booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter to the exhaust port.
2. Visible emissions shall be observed on a weekly basis to ensure no visible emissions during the material handling operation of the unit. If visible emissions are observed this would be an exceedance not a violation and action will be taken as soon as possible, but no later than eight (8) hours. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2 hour intervals throughout the day. If unsuccessful that day due to weather, an observation shall be made the following day.
3. If leaks or abnormal conditions are detected the appropriate measures for remediation will be implemented within eight (8) hours.

**Record Keeping**

All maintenance and inspections records will be kept for five (5) years and available upon request.

Maintenance records are kept in the office.

**Quality Control**

1. All equipment will be operated and maintained according to the manufactures recommendations.
2. An adequate supply of spare parts shall be kept.

# Appendix C: Compliance Assurance Monitoring (CAM) Plans

## Emission Point 5

### Background

#### Applicability

A dust collector is used to control particulate emissions from the associated CAM emission unit. The potential uncontrolled emissions from the emission unit are greater than or equal to the major source threshold for PM. The dust collector is used to achieve compliance with the emission limitations/standards.

#### CAM Associated Process/Emission Unit(s)

##### Identification:

07-A1, Sizer Saw  
07-A2, Sizer Saw  
07-B1, Rogers Panel Saw  
07-B2, Rogers Panel Saw  
07-D1, Rework & Sanding  
07-D2, Rework & Sanding

##### Facility:

Modernfold, Inc.  
512 5<sup>th</sup> Street NW  
Dyersville, IA 52040  
EIQ Number: 92-3655  
Facility File Number: 31-02-002

#### Applicable Regulation, Emission Limit and Pre-CAM Monitoring Requirements

##### Regulation/Permit Number:

Construction Permit 91-A-205-S2

##### Emission Limits:

Opacity – 40%  
PM-10 – 0.6 lb/hr  
Particulate Matter – 0.1 gr/scf, 5.1 lb/hr

##### Pre-CAM Monitoring Requirements:

Weekly opacity monitoring

#### Control Technology, Capture System, Bypass and PTE

Control Equipment Identification Number: CE-05  
Control Equipment Description: Cartridge Dust Collector  
Control Equipment Manufacturer: Torit Model 770  
Control Equipment Installation: 1991

### Monitoring Approach

#### Indicators

Parameters to be measured include differential pressure (dP – inches of water column) across the dust collector tube sheet and visible emissions.

#### Measurement Approach

- Periodic monitoring is not required during periods of time greater than one day in which the source does not operate.
- An operator will obtain and record daily differential pressure readings (Using a magnahelic gauge).



- An operator will inspect and record visible emissions daily to ensure no visible emissions are present. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2 hour intervals throughout the day. If unsuccessful that day due to weather, an observation shall be made the following day.
- Preventive maintenance will be performed on the dust collection system on a monthly basis. Maintenance activities include inspection of the filter media, tube sheet, dust collector housing, air delivery and exit systems, fan, compressed air systems and differential pressure monitoring equipment.

#### Indicator Ranges

- The facility makes a commitment to take corrective action upon observing abnormal conditions, such as visible emissions and monitoring equipment indicators out of range. An abnormal condition/excursion does not necessarily indicate a deviation/violation of an applicable requirement. A corrective action may include an investigation of the reason for the abnormal condition/excursion, evaluation of the situation, and necessary follow-up action to return operation within the indicator range. Corrective actions will begin as soon as possible, but no later than eight (8) hours from the observation of the abnormal condition/excursion.
- If the corrective action measures fail to return the indicator to correct operating ranges, the facility will submit an exceedance report to the department and conduct source testing within 120 days of the exceedance to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for the monitoring and the new ranges must be incorporated in to the operating permit. If the test demonstrates non-compliance with emission limits, then the facility must submit a proposal within 60 days outlining a schedule to implement corrective actions to bring the source into compliance and demonstrate compliance.
- The observed differential pressure (dP) across the dust collector is to be within the recent normal operating pressure. If it is observed to be outside of the normal operating range, then corrective action will be taken to determine the cause and correct the abnormal condition/excursion.
- The observed opacity is to be “no visible emissions” from the stack. If noticeable visible emissions are observed from the stack, corrective actions will be taken to determine the cause and all repairs will be made. An incident of excess emissions shall be orally reported to the appropriate DNR field office within eight (8) hours of, or at the start of, the first working day following the onset of the incident. A written report of an incident of excess emissions shall be submitted as a follow-up to all required oral reports within seven (7) days of the onset of the upset condition.

#### Performance Criteria

##### *Data Representatives*

- A differential pressure that is not within the recent normal operating pressure could indicate a decrease in performance of the dust collector and potentially an increase in particulate emissions.
- An observation of “noticeable visible emissions” could indicate a decrease in the performance of the dust collector and potentially an increase in particulate emissions.

##### *Verification of operational Status*

- Records will be kept for five years and available on request

#### *QA/QC Practices and Criteria*

- All instruments and control equipment will be maintained and operated according to the manufacturers specifications
- An adequate spare parts inventory will be maintained.

#### **Justification**

##### Background

The dust collector (CE-05) controls PM emissions from wallboard and MDF sawing operations (EU 07A1 and others). The dust collector is located outside the building. The controlled exhaust flow rate is approximately 9,500 standard cubic feet per minute. This unit is not a “large” CAM source (its post control PM emissions is less than 100 tons per year).

##### Rationale for Selection of Performance Indicators

The daily differential pressure readings were selected as the performance indicator since it is indicative of the dust collector performance in collection particulate and this its compliance with the particulate emissions standard

##### Rationale for Selection of Indicator Ranges

The selected indicator range is established as the recent normal operating pressure. This change in dP was selected as the indicator range since a dP outside the recent normal operating range could indicate a reduced performance of a dust collector and a potential increase in particulate emissions.

At this time, the facility does not believe it has sound historical data to determine the “normal operating range.” To provide a reasonable assurance of ongoing compliance with applicable emission limitations or standards, the facility proposes the following schedule to obtain data and determine the “normal operating range.” This schedule begins on the date the Title V application is received by the Iowa DNR.

The facility will use monitoring data (i.e. dP and visible emission observations) during the months of January, February and March 2007 to establish a normal operating range. The facility will consult with the process operators, the manufacturer, and engineers to assist with validating the dust collector’s normal operating conditions and its corresponding “normal operating range.”

## Emission Point 37

### Background

#### Applicability

A dust collector is used to control particulate emissions from the associated CAM emission unit. The potential uncontrolled emissions from the emission unit are greater than or equal to the major source threshold for PM. The dust collector is used to achieve compliance with the emission limitations/standards.

#### CAM Associated Process/Emission Unit(s)

##### Identification:

40A, Kerfing Saw

40B, Kerfing Saw

##### Facility:

Modernfold, Inc.

512 5<sup>th</sup> Street NW

Dyersville, IA 52040

EIQ Number: 92-3655

Facility File Number: 31-02-002

#### Applicable Regulation, Emission Limit and Pre-CAM Monitoring Requirements

##### Regulation/Permit Number:

Construction Permit 01-A-035

##### Emission Limits:

Opacity – 40%

PM-10 – 0.9 lb/hr

Particulate Matter – 0.1 gr/scf,

##### Pre-CAM Monitoring Requirements:

Weekly opacity monitoring

#### Control Technology, Capture System, Bypass and PTE

Control Equipment Identification Number: CE-37A: Dust Collector and CE 37B: Cyclone

Control Equipment Manufacturer: Torit Model 770

Control Equipment Installation: 2001

### Monitoring Approach

#### Indicators

Parameters to be measured include differential pressure (dP – inches of water column) across the dust collector tube sheet and visible emissions.

#### Measurement Approach

- Periodic monitoring is not required during periods of time greater than one day in which the source does not operate.
- An operator will obtain and record daily differential pressure readings (Using a magnahelic gauge).
- An operator will inspect and record visible emissions daily to ensure no visible emissions are present. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2 hour intervals throughout the day. If unsuccessful that day due to weather, an observation shall be made the following day.

- Preventive maintenance will be performed on the dust collection system on a monthly basis. Maintenance activities include inspection of the filter media, tube sheet, dust collector housing, air delivery and exit systems, fan, compressed air systems and differential pressure monitoring equipment.

#### Indicator Ranges

- The facility makes a commitment to take corrective action upon observing abnormal conditions, such as visible emissions and monitoring equipment indicators out of range. An abnormal condition/excursion does not necessarily indicate a deviation/violation of an applicable requirement. A corrective action may include an investigation of the reason for the abnormal condition/excursion, evaluation of the situation, and necessary follow-up action to return operation within the indicator range. Corrective actions will begin as soon as possible, but no later than eight (8) hours from the observation of the abnormal condition/excursion.
- If the corrective action measures fail to return the indicator to correct operating ranges, the facility will submit an exceedance report to the department and conduct source testing within 120 days of the exceedance to demonstrate compliance with applicable requirements. If the test demonstrates compliance with emission limits then new indicator ranges must be set for the monitoring and the new ranges must be incorporated in to the operating permit. If the test demonstrates non-compliance with emission limits, then the facility must submit a proposal within 60 days outlining a schedule to implement corrective actions to bring the source into compliance and demonstrate compliance.
- The observed differential pressure (dP) across the dust collector is to be the recent normal operating pressure. If it is observed to be outside of recent normal operating range, then corrective action will be taken to determine the cause and correct the abnormal condition/excursion.
- The observed opacity is to be “no visible emissions” from the stack. If noticeable visible emissions are observed from the stack, corrective actions will be taken to determine the cause and all repairs will be made. An incident of excess emissions shall be orally reported to the appropriate DNR field office within eight (8) hours of, or at the start of, the first working day following the onset of the incident. A written report of an incident of excess emissions shall be submitted as a follow-up to all required oral reports within seven (7) days of the onset of the upset condition.

#### Performance Criteria

##### *Data Representatives*

- A differential pressure that is not within the recent normal operating pressure could indicate a decrease in performance of the dust collector and potentially an increase in particulate emissions.
- An observation of “noticeable visible emissions” could indicate a decrease in the performance of the dust collector and potentially an increase in particulate emissions.

##### *Verification of operational Status*

- Records will be kept for five years and available on request

##### *QA/QC Practices and Criteria*

- All instruments and control equipment will be maintained and operated according to the manufacturers specifications
- An adequate spare parts inventory will be maintained.

## **Justification**

### Background

The dust collector (CE-37A) and Cyclone (CE-37B) controls PM emissions from wallboard and MDF sawing operations (EU 40A and 40B). The dust collector is located outside the building. The controlled exhaust flow rate is approximately 3,500 standard cubic feet per minute. This unit is not a “large” CAM source (its post control PM emissions is less than 100 tons per year).

### Rationale for Selection of Performance Indicators

The daily differential pressure readings were selected as the performance indicator since it is indicative of the dust collector performance in collection particulate and this its compliance with the particulate emissions standard

### Rationale for Selection of Indicator Ranges

The selected indicator range is established as the recent normal operating pressure. This change in dP was selected as the indicator range since a dP outside the recent normal operating range could indicate a reduced performance of a dust collector and a potential increase in particulate emissions.

At this time, the facility does not believe it has sound historical data to determine the “normal operating range.” To provide a reasonable assurance of ongoing compliance with applicable emission limitations or standards, the facility proposes the following schedule to obtain data and determine the “normal operating range.” This schedule begins on the date the Title V application is received by the Iowa DNR.

The facility will use monitoring data (i.e. dP and visible emission observations) during the months of January, February and March 2007 to establish a normal operating range. The facility will consult with the process operators, the manufacturer, and engineers to assist with validating the dust collector’s normal operating conditions and its corresponding “normal operating range.”